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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 65.0132 Seconds  
(without alignments)  
964.500 Million cell updates/sec

Title: US-09-587-574-1

Perfect score: 4445

Sequence: 1 MSAAVLTLPLDPSSSFRED.....DETFLPMYGRILGKVERID 840

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A COMB.pcp.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B COMB.pcp.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A COMB.pcp.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp.\*
- 5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pcp.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1736	39.1	855 3	US-08-890-865A-10
2	1655	37.2	992 3	US-08-890-865A-1
3	1605	36.1	900 3	US-08-890-865A-4
4	412	9.3	127 3	US-08-890-865A-19
5	208	4.7	235 3	US-09-244-314-2
6	208	4.7	235 4	US-09-498-959-2
7	208	4.7	235 4	US-09-894-749-2
8	196	4.4	313 4	US-09-270-767-43189
9	193	4.3	235 3	US-09-244-314-4
10	193	4.3	235 4	US-09-498-959-4
11	193	4.3	235 4	US-09-894-749-4
12	190	4.3	51 3	US-08-890-865A-23
13	189.5	4.3	520 4	US-09-949-016-9918
14	172.5	3.9	211 2	US-08-748-483-4
15	172.5	3.9	211 4	US-09-949-016-6288
16	172.5	3.9	221 4	US-09-949-016-10608
17	171.5	3.9	120 3	US-08-890-865A-13
18	170.5	3.8	243 2	US-08-829-110-3
19	169	3.8	181 4	US-09-949-016-10741
20	167.5	3.8	120 3	US-08-890-865A-11
21	166	3.7	119 2	US-08-588-258B-31
22	166	3.7	119 3	US-08-460-505-31
23	166	3.7	119 5	PCT-US96-08295-31
24	166	3.7	196 2	US-08-829-110-5
25	166	3.7	196 2	US-08-748-483-3
26	166	3.7	196 4	US-09-702-705-339
27	166	3.7	196 4	US-09-736-457-339

Sequence 339, App  
Sequence 339, App  
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Sequence 10607, A  
Sequence 21, Appl  
Sequence 18, Appl  
Sequence 1199, A  
Sequence 15, Appl  
Sequence 1, Appl  
Sequence 25, Appl  
Sequence 25, Appl  
Sequence 32, Appl  
Sequence 32, Appl  
Sequence 32, Appl  
Sequence 6, Appl  
Sequence 5, Appl  
Sequence 11200, A

28 166 3.7 196 4 US-09-614-124B-339  
29 166 3.7 196 4 US-09-671-325-339  
30 166 3.7 196 4 US-09-589-184-339  
31 166 3.7 196 4 US-09-658-824-339  
32 166 3.7 200 4 US-09-949-016-10607  
33 162.5 3.7 1182 3 US-09-041-886-21  
34 162 3.6 119 3 US-08-890-865A-18  
35 160.5 3.6 190 4 US-09-949-016-11199  
36 159 3.6 119 3 US-08-890-865A-15  
37 159 3.6 181 2 US-08-748-483-1  
38 159 3.6 181 4 US-09-709-103-25  
39 159 3.6 181 4 US-09-439-410A-25  
40 158 3.6 121 2 US-08-588-258B-32  
41 158 3.6 121 3 US-08-460-505-32  
42 158 3.6 121 5 PCT-US96-08295-32  
43 157.5 3.5 205 2 US-08-829-110-6  
44 157.5 3.5 205 2 US-08-748-483-5  
45 157.5 3.5 232 4 US-09-949-016-11200

ALIGNMENTS

RESULT 1  
US-08-890-865A-10  
; Sequence 10, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890,865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 855 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
; US-08-890-865A-10

Query Match 39.1%; Score 1736; DB 3; Length 855;

Best Local Similarity 44.5%; Pred. No. 1.6e-147;

Matches 406; Conservative 128; Mismatches 214; Indels 164; Gaps 35;

Qy 12 DPSSSFREDAPRPVPGEGETPPCQPSVGKSTKMPVS-----SNARNEDG--- 61

Db 25 DLGRSFTEDAPRPVPGEGE-----LVSTDRPVSHGYSKSDAVRNETSTAT 74

Qy 62 -----LG-EPEGRASPDSPLTRWTKLSLSLHSLGDDQAGYLFRFTLREKCVDTLDFWFA 113

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Db 75 PRSDLDLGYEPGSGASPTPPYLKWAESLHSLDDQDGINLFTFLKQEDCADLLDFWFA 134
Qy 114 CNGFRQWN---LKDITKLRVAKAIYKRYI--ENNSVVSVKQKPKATKYIYRDGIKKQOIGSV 169
Db 135 CSGFKLPCVSNEEKRLAKAIYKYLDDNNGIVSRQIKPATKSFIDCVMKLQIDPD 194
Qy 170 MFOAQTEIQAVMBENAYQVFLTSDIYLYVRSGGENTAYMS--NGGLSKLVKCYLPLT 227
Db 195 MFOAQTEIQCMIEDNTYPLFLKSDIYLEYTRTGSESPKTYSPSSGSGTGKGLPGYLP 254
Qy 228 LNEEBEWC-ADLKCKLS----PTVGLSKTLRATASVRSTETAB-----NGRFSFKRSD 278
Db 255 LNEDEEWKCDQDTEPEASRDSAPS--RLTKLLELATQATQATSTRYSEGREFRHGSWE 313
Qy 279 PVNPYHVGSGYVPAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQLQR 335
Db 314 PVNPYVNTGYAMAPATSANDSEQSMSSDA---DTMSLTDSSIDGIPPYRL--RQHR 368
Qy 336 EMHRSVKANGQVSLPHPRTHRLPKEMTPVEPAAPAAELISRLKLEKLESHSLSEERL 395
Db 369 EMQESAKANGRVLPHPHPRTRYMPKDI--HVEPEKFAELINRLEEVQKEREAEKLEERL 427
Qy 396 QOJREDEEKGSGOALSSRDGAPVQHPLALLPSG-----SYER 433
Db 428 KRVRAEE---GEDADISSGFSVISHK---MPSAQPHHPAPRYSEMGCGMQMRDAHEE 481
Qy 434 DPOTILDDHLRSVLKTPGCGSPGVGRYSRPSRSPDHQHHHQCHQOCHTLTSTGCKLPPVA 493
Db 482 NPESILDEHVQVWKTPGCGSPGGRHSKPRSPESGH-----LGKSLGTLTIPP-- 532
Qy 494 ACPLLGKSLFTKQTT-----KHVHHVYHHHVAVPKTEETAEABATQVRCLCPG 543
Db 533 -----GHGKHTTKSGMKLDAANLYHHKHVVYH--IHHSMMKPKQEIEABATQVRQNSFAW 586
Qy 544 GTDYCYC-SCKSHPK-----APLPLEQPCGSRGGTLPKRNAKGTETPGALSARDGMS 598
Db 587 NVDSHNYATKSRNYSNLGMAPVMDSLGYSG--KASLLSKRNKTKTDSGKS-----DGANY 641
Qy 599 SAAGGQPLGCEGDRSQDVMQWMLSEBQ---SKSKPHSAQSIKRSYPLESARAAPGER- 654
Db 642 EMFGSP-----EDVERNQILQWIEGEKEISRHKTNHGSSGKQLSHDMVRPLSIEP 697
Qy 655 VSRHLLGASHGRSVAR-AHPTQDPAMPPLTPPNTLAQLEBACRRLAESVK-----PQ 708
Db 698 VAVHPWV--SAQLRNYYVQSPHPFIQDPTWPPNAPNPLTOLEEARRLLEEERKRAKGLPL 755
Qy 709 KORCCVASQORDRNHSAAGAGASPFANPSLAPEDHKEPKLASVHALQASLVVTVYFC 768
Db 756 KQR--LKPQR-----PGSGASQPCN-----IVVAYYFC 783
Qy 769 GEBIPYRMLKAQSLTLGHFKQLSKKGNRYRYFKKASDEFACGAVPEEIIWDDTVLPMY 828
Db 784 GEPYRVLVKGVRVTLGQPKELLTKKGNRYRYFKKVSDEFDCGVVFEVREDDTILPIF 843
Qy 829 EGRILGKVERID 840
Db 844 EEKIIGKVEKID 855
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RESULT 2

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US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
```

```
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-1
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Query Match 37.2%; Score 1655; DB 3; Length 992;
Best Local Similarity 42.7%; Pred. No. 4.3e-140;
Matches 390; Conservative 133; Mismatches 246; Indels 144; Gaps 30;

Qy 12 DPSSSFREDAPPPVPGEEGE-----TPPCQSPV--GKVOSTKMPVSVSNARNEDGLG- 63
Db 140 DLGASPTEDAPPPVPGEEGELVSTDSRPVNHSPFCSGKGTSIKSETSTATPRRSLDLGY 199
Qy 64 EPEGASPSPLTRWTKSLHSLGDDGAYLERTLEREKCVDTLDFWACNGFRQWNLK 123
Db 200 EPEGASPTPPYLRWABSLHSLDDODGIGSLFRTFLKQEGCADLLDFWACSGFRKLEPC 259
Qy 124 DT---KTLRVAKAIYKRYI--ENNSVVSVKQKPKATKYIYRDGIKKQOIGSVMFDAQTEIQ 179
Db 260 DSNEEKRLKALRYKYILDSNGIVSRQTKATKSFIDCVMKQOIDPAMFDAQTEIQ 319
Qy 180 AWENENAYQVFLTSDIYLYVRSGGENTAYMS--NGGLSKLVKCYLPLTNEEBEWC- 236
Db 320 STMEENTYPSFLKSDIYLEYTRTGSESPKVCSDQSSGSGTGKMSGYLPLTNEDEEWKCD 379
Qy 237 -----ADLKCKLSPTVVGLSSKTL-----RATASVRSTETAEANGFRSKRSPVNPYHV 285
Db 380 QDAEDDDGRDPLPPS--RLTKLLELTAAPRAPSSRRYNEGRELRYGSRW--EPVNPYYV 435
Qy 286 GSGYVPAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQLQREHRSVK 342
Db 436 NSGYALAPATSANDSEQQSLSSDA---DTLSLTDSSVDGI PPYRI--RQHRREMQUESIQ 490
Qy 343 ANGQVSLPHPRTHRLPKEMTPVEPAAPAAELISRLKLEKLESHSLSEERLQQIRED 402
Db 491 VNGRVPLPHIPTRYMPKEIR--VEPQKFAEELIHRLEAVQRTREAEKEERLKRVRMBE 549
Qy 403 EXEGSEQALSSRDGAPVQHPLALLPS-----GSVEEDPOTILDDHLR 445
Db 550 EGEDGEMP-----SGPMASHKLPSPAWHHPFPYRYVDMGCSGLRDAHEENPESLDEHVQR 605
Qy 446 VLKTPGCGSPGVGRYSRPSRSPDHQHHHQCHQOCHTLTSTGCKLPPVAACPILGG----- 500
Db 606 VMRTFCQSPG-----PCHRSFDSGH-----VAKTAVLGGTASGH 640
Qy 501 -----KSLTKQTT-----KHVHHVYHHHVAVPKTEETAEABATQVRCLCPGTDYCY 550
Db 641 GKHPVKLGLKLTAGLHHRHVVHH--VHNSA--RPKEQMEAEVARRVQSSFSFSGPETHGH 698
Qy 551 SKCKSHPK-APEPL-PGEQFCGSRGTLPKRNAKGTETPGALSARDGMSAAGGQPLPG 608
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Db 699 AKPRSVENAGTILSAGDLFPFGKTSAPSKNTKKAESGNANA-----EVPS 746  
Qy 609 --BEGDRSQDWQWMLSESRQ---SKSKPHSAQSIRKSYPLESARAPGRRVSRHLLGA 663  
Db 747 TTEDAENQKIMQWIEGEKEISHRKAGHGSSGLRQQAHESSRPLSIERPGAVHPWVS 806  
Qy 664 SGHRSVARAHPTQDPAMPPLTPPNTLAOLEEACRLAEVSK-----POKORCCVASQ 718  
Db 807 AOLRNSVQPSHLFTQDTPMPNPAFNPPLTQLEEARRELEEBEERANKLPKQRVQAVMQ 866  
Qy 719 RDRNHSAAQAGASPFANP-----SLAPEDHKEPKKLASVHALQASLVTYFF 767  
Db 867 R-----GRTCVRPACAPVLSVVPVAVSDLELSETKSQKAGGSAAPPCCDSIVVGYYF 919  
Qy 768 CGEIPYRMLKAQSLTLGHFKHKEQLSKGNRYRYFKKASDEFACGAVFBEIWDDEVLP 827  
Db 920 CGEIPYRMLKAQSLTLGHFKHKEQLSKGNRYRYFKKASDEFACGAVFBEIWDDEVLP 827  
Qy 828 YEGRIKQVERID 840  
Db 980 FEEKIIGKVEKD 992

## RESULT 3

US-08-890-865A-4  
; Sequence 4, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890,865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 900 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-4  
Query Match 36.1%; Score 1605; DB 3; Length 900;  
Best Local Similarity 41.2%; Pred. No. 1.2e-135;  
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;  
Qy 12 DPSSSFRDAPRPVPGEGETPPCQPSGVKQSKMPVVS-----SN 54  
Db 48 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYSFCSGKGVKGETSTAT 97

Qy 55 ARNRNEDGLG-EPEGRASPDSPLTRMTKSLHSLGDDQDGYALFRTFLERKCVDTLDFWFA 113  
Db 98 PRSDLDLGVPEGSASPTPPYLKWAESLHSLDDQDGI SLFRTFLKQECADLLDFWFA 157  
Qy 114 CNGFRONMLKDT---KTLRVAKAIYKRYI-ENNSVVSQKLPKATKYIRDGIKQIQIGSV 169  
Db 158 CTGFRKLEPCDSNEERLKLARAIYKRYILDNNGIVSRQTKPATKFKICGINKQLLDPA 217  
Qy 170 MFDQAQTEIQAVMEENAYOVFLTSDIYLEYVRSGGENTAYMS--NGGLGSLKVLGCLYPT 227  
Db 218 MFDQAQTEIQAVMEENAYOVFLTSDIYLEYVRSGGENTAYMS--NGGLGSLKVLGCLYPT 227  
Qy 228 LNEEEBWTG-----ADLKCKLSPVTVGLSSKTLRATASVRSRTETAEAGFRFGR 276  
Db 278 LNEDEWKCDQDDEDDGRDAAPPGRLL-POKLLLETAAPRVSSRRYSEGREFRYGSWR- 335  
Qy 277 SDPVNPHVSGVYFAPATPANDSE---LSSDALTDSSMTDSSVDGVPYPMGSKQL 333  
Db 336 -EPVNPYYNAGYALAPATPANDSEQQSLSSDA---DTLSLTSSVDGIPPYRI--RKQH 389  
Qy 334 QREMHRSVRKANGOVSLPHPPRTHRLPKEMTPPEPAAFAELI SRLEKLELESRSLEE 393  
Db 390 REMQESAQVNGRVPLPHIPRTYRVPEVR-VEPOKFAEELIHRLEAVQRTREAEKLEE 448  
Qy 394 RLQOIREDEEKEGSEQALSRRDGPVQ-----HPLALLPS-----G 429  
Db 449 RLKXRVMEEGE-----DGDSSGPPGCHKLPPAPAWHHFPPRLCWTWACAGLRD 499  
Qy 430 SYEEDPOTILDDHLSRVLTGPGCQSGVGRYSRPSRSPDHHHHHHHHQCHTLLSTGGKL 489  
Db 500 AHEENPESILDEHVQVRLTTRGQSPG-----PGRSPDSGHV-----AKM 540  
Qy 490 PVAAACPLLGKGSFLTQTK-----HVHHVYIHHAVPKTEIEAEATQVRVC 539  
Db 541 FVALGGAASGHGKHVPKSGAKLDAAGLHHRHHVHV--HHSTARPEQVEAEATRAQS 598  
Qy 540 LCPGTDYCYSK-----CKSHPKAPEPLPGEQFCGSRGGTLPRKNAKGTPEGLALSARD 594  
Db 599 SPWGLEPHSHGARSRGYSESVAAPNASDGLAHSG-KVGIVACKRNAKKAESGKSA-- 655  
Qy 595 GGMSSAAGGPOLPG--REGDRSQDWQWMLSESRQ---SKSKPHSAQSIRKSYPLESARA 649  
Db 656 -----EVPKASDAENKQIMQWIEGEKEISHRRTGHGSGTRKPPQPHENSRP 705  
Qy 650 APGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPPNTLAOLEEACRLAEVSK--- 706  
Db 706 -----LSLEHPWAGPQRLTSVQPSHLFTQDTPMPHPAPNPPLTQLEEARRELEEK 760  
Qy 707 --POKORCCVASQOQDRNHSAAQAGASPFANP-----SLAPEDHKEPKKLASV 753  
Db 761 RAPSQRVQEVMR-----GEACVVPACAPVHVVPVAVSDMELSETETRSQKVGCG 813  
Qy 754 HALQASLVTYFFCGEIEPYRMLKAQSLTLGHFKHKEQLSKGNRYRYFKKASDEFACGA 813  
Db 814 SAQPCDSIWVAYFCGEPPIPYRTLVRGRAVTLGOKELLTKGSRYYRYFKKVSDEFDCGV 873  
Qy 814 VFEIWDDEVLPVMEGRILKQVERID 840  
Db 874 VFEIWDDEVLPVMEGRILKQVERID 840

## RESULT 4

US-08-890-865A-19  
; Sequence 19, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas

```
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-19

Query Match          9.3%; Score 412; DB 3; Length 127;
Best Local Similarity 62.2%; Pred. No. 3.3e-29;
Matches 79; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

QY 77 RWTKSLHSLGDDGAYLFRTEFLEREKCVDTLDFWACNGFR-----OMNLKDTKTLRVAKAIYK 133
Db 1 RWAESLHSLDDQDGISLFRTEFLKQEGCADLLDFWACSGFRKLEPCDSNEEKRLKLARA 60

QY 134 IYKRYI-ENNSVSVSKQLPKATKYIIRDGIKKQOIGSVMFDAQTEIOAVMEENAYQVFLT 192
Db 61 IYKRYILDSNGIVSRQTKPDKFIKDCVMKQIDPAMFDAQTEIQSTMEENTYPSFLK 120

QY 193 SDIYLEY 199
Db 121 SDIYLEY 127

RESULT 5
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-244-314-2

Query Match          4.7%; Score 208; DB 3; Length 235;
Best Local Similarity 30.8%; Pred. No. 2.5e-10;
Matches 56; Conservative 34; Mismatches 58; Indels 34; Gaps 6;

QY 41 GKQVSTKPMVSSNARN-----ED-----GLGEPEGRASPDSPLTRWTKSL 82
Db 29 GKEETSKEAKIRAKEKRNRLSLLVQKPEFHEDTRSSRSGHLAKETRVSPPEAV-KWGESF 87

QY 83 HSLGDDGAYLFRTEFLEREKCVDTLDFWACNGFR-----OMNLKDTKTLRVAKAIYK 136
Db 88 DKLLSHRDGLEAFTRFLKTEFSEENIEFWIACDFKSKGPGQIHLK-----AKAIYE 140

QY 137 RYIENNSVSVSKQLPKATKYIIRDGIKKQOIGSVMFDAQTEIOAVMEENAYQVFLTSDIY 196
Db 141 KFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVVQLMEQDSYTRFLKSDIY 198

QY 197 LE 198
Db 199 LD 200

RESULT 6
US-09-498-959-2
; Sequence 2, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 5800-19A
; CURRENT FILING DATE: 2000-02-04
; CURRENT APPLICATION NUMBER: 09/498,959
; EARLIER APPLICATION NUMBER: 09/244,314
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-498-959-2

Query Match          4.7%; Score 208; DB 4; Length 235;
Best Local Similarity 30.8%; Pred. No. 2.5e-10;
Matches 56; Conservative 34; Mismatches 58; Indels 34; Gaps 6;

QY 41 GKQVSTKPMVSSNARN-----ED-----GLGEPEGRASPDSPLTRWTKSL 82
Db 29 GKEETSKEAKIRAKEKRNRLSLLVQKPEFHEDTRSSRSGHLAKETRVSPPEAV-KWGESF 87

QY 83 HSLGDDGAYLFRTEFLEREKCVDTLDFWACNGFR-----OMNLKDTKTLRVAKAIYK 136
Db 88 DKLLSHRDGLEAFTRFLKTEFSEENIEFWIACDFKSKGPGQIHLK-----AKAIYE 140

QY 137 RYIENNSVSVSKQLPKATKYIIRDGIKKQOIGSVMFDAQTEIOAVMEENAYQVFLTSDIY 196
Db 141 KFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVVQLMEQDSYTRFLKSDIY 198

QY 197 LE 198
Db 199 LD 200

RESULT 7
US-09-894-749-2
; Sequence 2, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
```

Query Match 4.3%; Score 193; DB 4; Length 235;  
Best Local Similarity 28.1%; Pred. No. 5.7e-09;  
Matches 50; Conservative 37; Mismatches 69; Indels 22; Gaps 5

QY 41 GKQSTKMPVSNARRNE-----DGLGE-----PEGRASPDSPLTRWTKSL 82  
Db 29 GKETSIEAKIRAKERNRLSLLQRPDFHGETQASRSALLAKETRVSPPEAV-KWAESF 87  
QY 83 HSLGQDQGYLFRTEFLEREKCVDTLDFWPCNGFRQMNLDKTKTLRVAKAIYKRYIENN 142  
Db 88 DKLSHRDGVDAFTRFLKTEFSEENIEFWACEDFKCK-EPQOIIILKAKAIYEKFIQND 146  
QY 143 SVVSKOLKPKATKYIYRDGIIKKQIGSVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200  
Db 147 APKEVNIDFHTKEVIAKSIQAPTLHS--FDTAQRVYQLMEHDSYKRFLLKSETYLHLI 202

RESULT 11

US-09-894-749-4  
; Sequence 4, Application US/09894749  
; Patent No. 6830914  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; APPLICANT: Yowe, David  
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof  
; FILE REFERENCE: 5800-19, 035800/174680  
; CURRENT APPLICATION NUMBER: US/09/894,749  
; CURRENT FILING DATE: 2001-06-27  
; PRIOR APPLICATION NUMBER: 09/244,314  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 235  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-894-749-4

Query Match 4.3%; Score 193; DB 4; Length 235;  
Best Local Similarity 28.1%; Pred. No. 5.7e-09;  
Matches 50; Conservative 37; Mismatches 69; Indels 22; Gaps 5;  
QY 41 GKQSTKMPVSNARRNE-----DGLGE-----PEGRASPDSPLTRWTKSL 82  
Db 29 GKETSIEAKIRAKERNRLSLLQRPDFHGETQASRSALLAKETRVSPPEAV-KWAESF 87  
QY 83 HSLGQDQGYLFRTEFLEREKCVDTLDFWPCNGFRQMNLDKTKTLRVAKAIYKRYIENN 142  
Db 88 DKLSHRDGVDAFTRFLKTEFSEENIEFWACEDFKCK-EPQOIIILKAKAIYEKFIQND 146  
QY 143 SVVSKOLKPKATKYIYRDGIIKKQIGSVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200  
Db 147 APKEVNIDFHTKEVIAKSIQAPTLHS--FDTAQRVYQLMEHDSYKRFLLKSETYLHLI 202

RESULT 12

US-08-890-865A-23  
; Sequence 23, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/890,865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 51 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-23  
Query Match 4.3%; Score 190; DB 3; Length 51;  
Best Local Similarity 66.7%; Pred. No. 8.5e-10;  
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;  
QY 783 LTIGHFKEQLSKKGNRYFYFKKASDEFACGAVFEEIWDDETLPVMEGRIL 833  
Db 1 VTILGQFKELLTKKGSYRYFYFKKVSDFDCGVWFVEVREDEPVLVPVEEKII 51

RESULT 13

US-09-949-016-9918  
; Sequence 9918, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9918  
; LENGTH: 520  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-9918

Query Match 4.3%; Score 189.5; DB 4; Length 520;  
Best Local Similarity 32.0%; Pred. No. 4.4e-08;  
Matches 49; Conservative 26; Mismatches 67; Indels 11; Gaps 4;  
QY 56 RRNEDGIGEPGEBA-----SPDS-PLTRWTKSLSLGDDQDGAYLFRTEFLEREKCVDT 107  
Db 362 RRNESPGAPPAGKADKMMKSFKPTSEALKWGESLEKLLVHKYGLAVFQAFLETFESEN 421  
QY 108 LDFWFACNGFRQMNLDKTKTLRVAKAIYKRYIENNSVSKQLKPKATKYIYRDGIIKKQIG 167  
Db 422 LEFWLACEDFKVKV-SQSKWASAKKIPAEYIAIOACKENVLDSTYREHTKDNL--QSVT 478  
QY 168 SVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200  
Db 479 RGCFLAQKRIFGLMKSDSYPRFLRSDLYDLI 511

RESULT 14

US-08-748-483-4  
; Sequence 4, Application US/08748483

Patent No. 595314  
 GENERAL INFORMATION:  
 APPLICANT: Hillman, Jennifer L.  
 APPLICANT: Goli, Surya K.  
 TITLE OF INVENTION: A NOVEL REGULATOR OF CELL SIGNALLING  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: US  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/748,483  
 FILING DATE: Herewith  
 CLASSIFICATION: 530  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0157 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-845-4166  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 211 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 IMMEDIATE SOURCE:  
 LIBRARY: GenBank  
 CLONE: 292037  
 US-08-748-483-4

Query Match 3.9%; Score 172.5; DB 2; Length 211;  
 Best Local Similarity 26.9%; Pred. No. 3.4e-07;  
 Matches 46; Conservative 24; Mismatches 72; Indels 29; Gaps 4;  
 Qy 30 EGETPPCQPSVGKVS-----TKMPVSSNARNEDGLGEPEGRASPDSPLTRWTKSLHSL 85  
 Db 50 QNSSTPGKPKTKGKSKQAQAFIKPSPEAQL-----WSEAFDEL 87  
 Qy 86 LGDODGAYLFTFLEREKCVDTLDFWACNGFRQNLKDTKTLRVAKAIYKRYIENNSV 145  
 Db 88 LASKYGLAARAFLEKSECEENIEFWLACEDFKTK-SPQKLSKARKIYTDIEKEAPK 146  
 Qy 146 SKOLKPAKTYIRDGIKKQIGSVMFQAOQTEIOAVMEENAYQVFLTSDIY 196  
 Db 147 EINIDFQTKLIAQNI--QEATSGCFTTAQKRVYSLMNNNSYPRFLESEFY 195

RESULT 15  
 US-09-949-016-6288  
 Sequence 6288, Application US/09949016  
 Patent No. 6812339  
 GENERAL INFORMATION:  
 APPLICANT: VENTER, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 FILE REFERENCE: CL001307  
 CURRENT APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-04-14  
 PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/237,768  
 PRIOR FILING DATE: 2000-10-03  
 PRIOR APPLICATION NUMBER: 60/231,498  
 PRIOR FILING DATE: 2000-09-08  
 NUMBER OF SEQ ID NOS: 207012  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 6288  
 LENGTH: 211  
 TYPE: PRT  
 ORGANISM: Human  
 US-09-949-016-6288  
 Query Match 3.9%; Score 172.5; DB 4; Length 211;  
 Best Local Similarity 26.9%; Pred. No. 3.4e-07;  
 Matches 46; Conservative 24; Mismatches 72; Indels 29; Gaps 4;  
 Qy 30 EGETPPCQPSVGKVS-----TKMPVSSNARNEDGLGEPEGRASPDSPLTRWTKSLHSL 85  
 Db 50 QNSSTPGKPKTKGKSKQAQAFIKPSPEAQL-----WSEAFDEL 87  
 Qy 86 LGDODGAYLFTFLEREKCVDTLDFWACNGFRQNLKDTKTLRVAKAIYKRYIENNSV 145  
 Db 88 LASKYGLAARAFLEKSECEENIEFWLACEDFKTK-SPQKLSKARKIYTDIEKEAPK 146  
 Qy 146 SKOLKPAKTYIRDGIKKQIGSVMFQAOQTEIOAVMEENAYQVFLTSDIY 196  
 Db 147 EINIDFQTKLIAQNI--QEATSGCFTTAQKRVYSLMNNNSYPRFLESEFY 195  
 Search completed: October 25, 2005, 15:44:21  
 Job time : 67.0132 secs

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Result No.	Score	Query		DB	ID	Description
		Match	%			
1	407	63.7	127	3	US-08-890-865A-19	Sequence 19, Appl
2	407	63.7	992	3	US-08-890-865A-1	Sequence 1, Appl
3	406	63.5	855	3	US-08-890-865A-10	Sequence 10, Appl
4	401	62.8	900	3	US-08-890-865A-4	Sequence 4, Appl
5	186.5	29.2	235	3	US-09-244-314-2	Sequence 2, Appl
6	186.5	29.2	235	3	US-09-498-959-2	Sequence 2, Appl
7	186.5	29.2	235	4	US-09-894-749-2	Sequence 2, Appl
8	177.5	27.8	235	3	US-09-244-314-4	Sequence 4, Appl
9	177.5	27.8	235	4	US-09-498-959-4	Sequence 4, Appl
10	177.5	27.8	235	4	US-09-894-749-4	Sequence 4, Appl
11	172.5	27.0	520	4	US-09-949-016-9918	Sequence 9918, Ap
12	169.5	26.5	120	3	US-08-890-865A-13	Sequence 13, Appl
13	167.5	26.2	120	3	US-08-890-865A-11	Sequence 11, Appl
14	167.5	26.2	211	2	US-08-748-483-4	Sequence 4, Appl
15	167.5	26.2	211	4	US-09-949-016-6288	Sequence 6288, Ap
16	167.5	26.2	221	4	US-09-949-016-10508	Sequence 10608, A
17	165	25.8	119	2	US-08-588-258B-31	Sequence 31, Appl
18	165	25.8	119	3	US-08-560-50S-31	Sequence 31, Appl
19	165	25.8	119	5	PCT-US96-08295-31	Sequence 31, Appl
20	165	25.8	196	2	US-08-829-110-5	Sequence 5, Appl
21	165	25.8	196	2	US-08-748-483-3	Sequence 3, Appl
22	165	25.8	186	4	US-09-702-707-339	Sequence 339, App
23	165	25.8	186	4	US-09-736-457-339	Sequence 339, App
24	165	25.8	196	4	US-09-614-124B-339	Sequence 339, App
25	165	25.8	196	4	US-09-671-325-339	Sequence 339, App
26	165	25.8	196	4	US-09-589-184-339	Sequence 339, App
27	165	25.8	196	4	US-09-588-824-339	Sequence 339, App

Db 62 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPAMFDQAQTEIQSTWENTYPSFLKS 121  
QY 117 DIYLEY 122  
Db 122 DIYLEY 127

RESULT 2  
US-08-890-865A-1  
; Sequence 1, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890, 865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 992 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-1

Query Match 63.7%; Score 407; DB 3; Length 992;  
Best Local Similarity 61.9%; Pred. No. 5.1e-42;  
Matches 78; Conservative 21; Mismatches 23; Indels 4; Gaps 2;  
QY 1 WTKSLHLLGDQDGAYLFRFTFLREKCVDTLDFWFCNGFROWNKDT---KTLRVAKAI 57  
Db 214 WAESLHLLDDQDGLSIFRFLKQEDCADLLDFWFCNGFGRKLEPCDSNEEKKRLKARAI 273  
QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIQGSMFQDQAQTEIQAVMEENAYQVFLTS 116  
Db 274 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPAMFDQAQTEIQSTWENTYPSFLKS 333  
QY 117 DIYLEY 122  
Db 334 DIYLEY 339

RESULT 3  
US-08-890-865A-10  
; Sequence 10, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li

; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890, 865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 855 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-10  
Query Match 63.5%; Score 406; DB 3; Length 855;  
Best Local Similarity 61.1%; Pred. No. 5.6e-42;  
Matches 77; Conservative 22; Mismatches 23; Indels 4; Gaps 2;  
QY 1 WTKSLHLLGDQDGAYLFRFTFLREKCVDTLDFWFCNGFROWN---LKDTKTLRVAKAI 57  
Db 99 WAESLHLLDDQDGINLFRFTFLKQEDCADLLDFWFCNGFGRKLEPCDSNEEKKRLKARAI 158  
QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIQGSMFQDQAQTEIQAVMEENAYQVFLTS 116  
Db 159 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPDMFDQAQTEIQCMIEDNTYPLFLKS 218  
QY 117 DIYLEY 122  
Db 219 DIYLEY 224  
RESULT 4  
US-08-890-865A-4  
; Sequence 4, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-4

Query Match 62.8%; Score 401; DB 3; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.5e-41;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

Qy 1 WTKSLHSLGDDGAYLFRFLEREKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 57
Db 122 WAESLHSLDDQDGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

Qy 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFL 116
Db 182 YRKYLDDNGIVSRQTKPATKSFKIGCMKQLIDPAMFDAQTEIOATMEENTYPSFLK 241

Qy 117 DYLEY 122
Db 242 DYLEY 247

RESULT 5
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-244-314-2

Query Match 29.2%; Score 186.5; DB 3; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLGDDGAYLFRFLEREKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

RESULT 6
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-244-314-2

Query Match 29.2%; Score 186.5; DB 3; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLGDDGAYLFRFLEREKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

RESULT 7
US-09-894-749-2
; Sequence 2, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-894-749-2

Query Match 29.2%; Score 186.5; DB 4; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLGDDGAYLFRFLEREKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

US-09-498-959-2
; Sequence 2, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19A
; CURRENT APPLICATION NUMBER: US/09/498,959
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: 09/244,314
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-498-959-2

Query Match 29.2%; Score 186.5; DB 4; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLGDDGAYLFRFLEREKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200
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Db 194 KSDIYLD 200

RESULT 8  
US-09-244-314-4  
; Sequence 4, Application US/09244314  
; Patent No. 6274362  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; APPLICANT: Yowe, David  
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof  
; FILE REFERENCE: 5800-19, 035800/174680  
; CURRENT APPLICATION NUMBER: US/09/244,314  
; CURRENT FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 235  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-244-314-4

Query Match 27.8%; Score 177.5; DB 3; Length 235;  
Best Local Similarity 31.7%; Pred. No. 4.7e-14;  
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDDQDQGVLYFRFLERKCVDTLDFWFCNGFRQWNLKDTKTLRVAKAIYKR 60  
Db 83 WAESFDKLLSHRDGVDAFTFRFLKTEFSEENIEFWACEDFKCK-BPQQIILKAKAIYK 141  
QY 61 YIENNSVSKQLPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTSDIYL 120  
Db 142 FIQNDAPKEVNI DFTHTKEVIAKSIAPOTLHS--FDTAQSRVYQLMEHDSYKRFKSETYL 199

QY 121 EYV 123  
Db 200 HLI 202

RESULT 9  
US-09-498-959-4  
; Sequence 4, Application US/09498959  
; Patent No. 6410240  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; APPLICANT: Yowe, David  
; TITLE OF INVENTION: RGS-Containing Molecules and Uses  
; FILE REFERENCE: 5800-19A  
; CURRENT APPLICATION NUMBER: US/09/498,959  
; CURRENT FILING DATE: 2000-02-04  
; EARLIER APPLICATION NUMBER: 09/244,314  
; EARLIER FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 235  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-498-959-4

Query Match 27.8%; Score 177.5; DB 4; Length 235;  
Best Local Similarity 31.7%; Pred. No. 4.7e-14;  
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDDQDQGVLYFRFLERKCVDTLDFWFCNGFRQWNLKDTKTLRVAKAIYKR 60  
Db 83 WAESFDKLLSHRDGVDAFTFRFLKTEFSEENIEFWACEDFKCK-BPQQIILKAKAIYK 141  
QY 61 YIENNSVSKQLPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTSDIYL 120  
Db 142 FIQNDAPKEVNI DFTHTKEVIAKSIAPOTLHS--FDTAQSRVYQLMEHDSYKRFKSETYL 199

QY 121 EYV 123  
Db 200 HLI 202

RESULT 10  
US-09-894-749-4  
; Sequence 4, Application US/09894749  
; Patent No. 6830914  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; APPLICANT: Yowe, David  
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof  
; FILE REFERENCE: 5800-19, 035800/174680  
; CURRENT APPLICATION NUMBER: US/09/894,749  
; CURRENT FILING DATE: 2001-06-27  
; PRIOR APPLICATION NUMBER: 09/244,314  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 235  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-894-749-4

Query Match 27.8%; Score 177.5; DB 4; Length 235;  
Best Local Similarity 31.7%; Pred. No. 4.7e-14;  
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDDQDQGVLYFRFLERKCVDTLDFWFCNGFRQWNLKDTKTLRVAKAIYKR 60  
Db 83 WAESFDKLLSHRDGVDAFTFRFLKTEFSEENIEFWACEDFKCK-BPQQIILKAKAIYK 141  
QY 61 YIENNSVSKQLPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTSDIYL 120  
Db 142 FIQNDAPKEVNI DFTHTKEVIAKSIAPOTLHS--FDTAQSRVYQLMEHDSYKRFKSETYL 199

QY 121 EYV 123  
Db 200 HLI 202

RESULT 11  
US-09-949-016-9918  
; Sequence 9918, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9918  
; LENGTH: 520  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-9918

Query Match 27.0%; Score 172.5; DB 4; Length 520;  
Best Local Similarity 32.5%; Pred. No. 5.8e-13;  
Matches 40; Conservative 24; Mismatches 56; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDDQDQGVLYFRFLERKCVDTLDFWFCNGFRQWNLKDTKTLRVAKAIYKR 60

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Db 392 WGESLEKLVHVKYGLAVFOAFLRTEFSEENLEFWLACEDFKVK-SQSKWASKAKIFAE 450
Qy 61 YIENNSVSVKOLPKATKYTRDGIKKQOIGSVMPDQAOQTEIQVMEENAYQVFLTSDIYL 120
Db 451 YIAIQACKVNLDSYTRHTKNDL--QSVTRGCGFDLAQKRIQGLMEKDSYPRFLRSDIYL 508
Qy 121 EYV 123
Db 509 DLI 511

RESULT 12
US-08-890-865A-13
; Sequence 13, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantin, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-13

Query Match 26.5%; Score 169.5; DB 3; Length 120;
Best Local Similarity 33.1%; Pred. No. 1.9e-13;
Matches 40; Conservative 23; Mismatches 55; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQAGYLFRTFLEREKCVDTLDFWACNFRQNMKDTKTLRVAKAIYKR 60
Db 2 WGESLEKLVHVKYGLAVFOAFLRTEFSEENLEFWLACEDFKVK-SQSKWASKAKIFAE 60
Qy 61 YIENNSVSVKOLPKATKYTRDGIKKQOIGSVMPDQAOQTEIQVMEENAYQVFLTSDIYL 120
Db 61 YIAIQACKVNLDSYTRHTKNDL--QSVTRGCGFDLAQKRIQGLMEKDSYPRFLRSDIYL 118
Qy 121 E 121
Db 119 D 119

RESULT 13
US-08-890-865A-11
; Sequence 11, Application US/08890865A
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; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantin, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-11

Query Match 26.2%; Score 167.5; DB 3; Length 120;
Best Local Similarity 32.8%; Pred. No. 3.4e-13;
Matches 39; Conservative 20; Mismatches 57; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQAGYLFRTFLEREKCVDTLDFWACNFRQNMKDTKTLRVAKAIYKR 60
Db 2 WSEAFDELLASKYGLAAFAFLKSEPCENIEFWLACEDFKTK-SQKLSKARKIYTD 60
Qy 61 YIENNSVSVKOLPKATKYTRDGIKKQOIGSVMPDQAOQTEIQVMEENAYQVFLTSDIYL 119
Db 61 FIEKEAPKEINIDFQTKTLIAQNI--QEA7SGCFTTAQKRVYSLMENN5YPRFLESEFY 117

RESULT 14
US-08-748-483-4
; Sequence 4, Application US/08748483
; Patent No. 5955314
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goll, Surya K.
; TITLE OF INVENTION: A NOVEL REGULATOR OF CELL SIGNALLING
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

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Title: US-09-587-574-2

Perfect score: 639

Sequence: 1 WTKLSHLLGDQDQAYLFRF.....VMEENAYQVLTSDIYLEV 123

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Gapop 10.0 , Gapext 0.5

Searched: 1862994 seqs, 417510619 residues

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
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- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/2/pubpaa/US10F\_PUBCOMB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	624	97.7	843	16	US-10-723-860-1797
2	624	97.7	843	16	US-10-751-736-1116
3	420	65.7	842	9	US-09-798-831-8
4	401	62.8	461	16	US-10-786-720-34
5	401	62.8	826	16	US-10-786-720-36
6	401	62.8	862	16	US-10-786-720-35
7	401	62.8	900	15	US-10-374-979-91
8	401	62.8	900	15	US-10-182-936A-91
9	401	62.8	900	16	US-10-477-238A-670
10	401	62.8	900	16	US-10-680-287A-670
11	401	62.8	900	17	US-10-477-173-670

12	401	62.8	912	15	US-10-092-900A-270	Sequence 270, App
13	186.5	29.2	227	9	US-09-867-550-848	Sequence 848, App
14	186.5	29.2	235	9	US-09-894-749-2	Sequence 2, Appli
15	186.5	29.2	235	15	US-10-258-371B-20	Sequence 20, Appli
16	186.5	29.2	235	18	US-10-989-054-2	Sequence 2, Appli
17	184.5	28.9	119	15	US-10-087-684-107	Sequence 107, App
18	184.5	28.9	119	15	US-10-218-779-107	Sequence 13, Appl
19	181.5	28.4	916	18	US-10-899-422-13	Sequence 11, Appl
20	181.5	28.4	1059	9	US-10-899-422-11	Sequence 4, Appli
21	177.5	27.8	235	9	US-09-894-749-4	Sequence 4, Appli
22	177.5	27.8	235	18	US-10-989-054-4	Sequence 1650, Ap
23	173.5	27.2	284	15	US-10-094-749-1650	Sequence 2, Appli
24	172.5	27.0	519	14	US-10-113-794A-2	Sequence 14, Appl
25	172.5	27.0	519	15	US-10-428-487-14	Sequence 28, Appl
26	172.5	27.0	519	15	US-10-258-371B-28	Sequence 3970, Ap
27	172.5	27.0	591	15	US-10-108-260A-3970	Sequence 1728, Ap
28	172.5	27.0	776	13	US-10-087-192-1728	Sequence 15, Appl
29	172.5	27.0	917	18	US-10-487-092-15	Sequence 4, Appli
30	167.5	26.2	211	9	US-09-206-639-4	Sequence 24, Appl
31	167.5	26.2	211	15	US-10-258-371B-24	Sequence 493, App
32	167.5	26.2	211	16	US-10-408-765A-493	Sequence 1507, Ap
33	167.5	26.2	220	9	US-09-925-300-1507	Sequence 1, Appli
34	167.5	26.2	930	14	US-10-113-794A-1	Sequence 3, Appli
35	165	25.8	196	9	US-09-206-639-3	Sequence 339, App
36	165	25.8	196	9	US-09-736-457-339	Sequence 339, App
37	165	25.8	196	9	US-09-902-941-339	Sequence 339, App
38	165	25.8	196	9	US-09-849-626-339	Sequence 339, App
39	165	25.8	196	10	US-09-476-300-339	Sequence 339, App
40	165	25.8	196	14	US-10-017-754-339	Sequence 339, App
41	165	25.8	196	14	US-10-113-872-339	Sequence 176, App
42	165	25.8	196	14	US-10-247-671-176	Sequence 339, App
43	165	25.8	196	15	US-10-283-017-339	Sequence 1292, Ap
44	165	25.8	217	9	US-09-925-301-1292	Sequence 152, App
45	165	25.8	923	15	US-10-114-270-152	

ALIGNMENTS

RESULT 1

US-10-723-860-1797  
; Sequence 1797, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193.NPUS01  
; CURRENT APPLICATION NUMBER: US/10723,860  
; CURRENT FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1797  
; LENGTH: 843  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-723-860-1797

Query Match	97.7%	Score 624;	DB 16;	Length 843;
Best Local Similarity	95.9%	Pred. No. 3.4e-60;		
Matches 118;	Conservative	4;	Mismatches 1;	Indels 0; Gaps 0;
Oy	1	WTKLSHLLGDQDQAYLFRFLEKEKCVDTLDFWACNPFQMLKDTKTLRVAKAIYKR	60	
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Oy	61	YIENNVSVKQKLPATKTYIRDGKIKQIGISVWFDQATQTEIQAVMEENAYQVLTSDIYL	120	
Db	138	YIENNVSVKQKLPATKTYIRDGKIKQIGISVWFDQATQTEIQAVMEENAYQVLTSDIYL	197	

QY 121 EYV 123  
Db 198 EYV 200

RESULT 2

US-10-751-736-116  
; Sequence 116, Application US/10751736  
; Publication No. US20040265230A1

; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; TITLE OF INVENTION: CANCERS  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 116  
; LENGTH: 843  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-751-736-116

Query Match 97.7%; Score 624; DB 16; Length 843;  
Best Local Similarity 95.9%; Pred. No. 3.4e-60;  
Matches 118; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWACNGFQMNLDKTKTLRVAKAIYKR 60  
Db 78 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWACNGFQMNLDKTKTLRVAKAIYKR 137  
QY 61 YIENSVSKQLPKATKYIRDGKQKQIGSVMFDAQTEIOAVMEENAYQVFLTSDIYL 120  
Db 138 YIENSVSKQLPKATKYIRDGKQKQIDSIIMFDAQTEIOAVMEENAYQVFLTSDIYL 197  
QY 121 EYV 123  
Db 198 EYV 200

RESULT 3

US-09-798-831-8  
; Sequence 8, Application US/09798831  
; Patent No. US20010052137A1  
; GENERAL INFORMATION:  
; APPLICANT: KLEIN, Peter S.  
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN  
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT  
; TITLE OF INVENTION: SIGNALING  
; FILE REFERENCE: 209596.0391/306U1  
; CURRENT APPLICATION NUMBER: US/09/798,831  
; CURRENT FILING DATE: 2001-03-01  
; PRIOR APPLICATION NUMBER: US 60/186,141  
; PRIOR FILING DATE: 2000-03-01  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 842  
; TYPE: PRT  
; ORGANISM: Xenopus laevis  
US-09-798-831-8

Query Match 65.7%; Score 420; DB 9; Length 842;  
Best Local Similarity 61.1%; Pred. No. 1.6e-37;  
Matches 77; Conservative 25; Mismatches 20; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWACNGFQMNLDKTKTLRVAKAI 57  
Db 85 WAESLHSLDDDDGHIHFRFTFLOQENCADLLDFWACSGFRKLEPNDSKVEKRLAKAI 144  
QY 58 YKRYI-ENNSVSVSKQLPKATKYIRDGKQKQIGSVMFDAQTEIOAVMEENAYQVFLTS 116  
Db 145 YKKYVLDNGSVIRQIKPATKSFIXKCVLRQIIDPAMFDAQMEIQSMMEDNTYPSFLKS 204  
QY 117 DIYLEY 122  
Db 205 DIYLEY 210

RESULT 4

US-10-786-720-34  
; Sequence 34, Application US/10786720  
; Publication No. US20040191818A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: O'Toole, Margot  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE  
; TITLE OF INVENTION: DISEASES  
; FILE REFERENCE: 031896-023000 (AM101331L)  
; CURRENT APPLICATION NUMBER: US/10/786,720  
; CURRENT FILING DATE: 2004-02-26  
; NUMBER OF SEQ ID NOS: 21135  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 34  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-786-720-34

Query Match 62.8%; Score 401; DB 16; Length 461;  
Best Local Similarity 62.7%; Pred. No. 9.7e-36;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWACNGFQMNLDKTKTLRVAKAI 57  
Db 134 WAESLHSLDDDDGHIHFRFTFLOQENCADLLDFWACSGFRKLEPNDSKVEKRLAKAI 193  
QY 58 YKRYI-ENNSVSVSKQLPKATKYIRDGKQKQIGSVMFDAQTEIOAVMEENAYQVFLTS 116  
Db 194 YKRYI-ENNSVSVSKQLPKATKYIRDGKQKQIDSIIMFDAQTEIOAVMEENAYQVFLTS 253  
QY 117 DIYLEY 122  
Db 254 DIYLEY 259

RESULT 5

US-10-786-720-36  
; Sequence 36, Application US/10786720  
; Publication No. US20040191818A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: O'Toole, Margot  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE  
; TITLE OF INVENTION: DISEASES  
; FILE REFERENCE: 031896-023000 (AM101331L)  
; CURRENT APPLICATION NUMBER: US/10/786,720  
; CURRENT FILING DATE: 2004-02-26  
; NUMBER OF SEQ ID NOS: 21135  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 36  
; LENGTH: 826  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-786-720-36

Query Match 62.8%; Score 401; DB 16; Length 826;



Best Local Similarity 62.7%; Pred. No. 2e-35; DB 16; Length 862;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDQGYLFRFTFLEREKCVDTLDFWFCNGFRQNMNKDT---KTLRVAKAI 57  
DB 85 WAESLHSLLDGQDQGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 144  
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116  
DB 145 YRKYILDNNGIVSRQTKPATKSPFKGCMKQLIDPAMFDAQTEIOATMEENTYPSFLKS 204  
QY 117 DIYLEY 122  
DB 205 DIYLEY 210

## RESULT 6

US-10-786-720-35  
; Sequence 35, Application US/10786720  
; Publication No. US20040191818A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: O'Toole, Margot  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE  
; DISEASES  
; FILE REFERENCE: 031896-023000 (AM101331L)  
; CURRENT APPLICATION NUMBER: US/10786,720  
; CURRENT FILING DATE: 2004-02-26  
; NUMBER OF SEQ ID NOS: 21135  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 35  
; LENGTH: 862  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-786-720-35

Query Match 62.8%; Score 401; DB 16; Length 862;  
Best Local Similarity 62.7%; Pred. No. 2.1e-35;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDQGYLFRFTFLEREKCVDTLDFWFCNGFRQNMNKDT---KTLRVAKAI 57  
DB 85 WAESLHSLLDGQDQGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 144  
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116  
DB 145 YRKYILDNNGIVSRQTKPATKSPFKGCMKQLIDPAMFDAQTEIOATMEENTYPSFLKS 204  
QY 117 DIYLEY 122  
DB 205 DIYLEY 210

## RESULT 7

US-10-374-979-91  
; Sequence 91, Application US/10374979  
; Publication No. US20030219793A1  
; GENERAL INFORMATION:  
; APPLICANT: John P. Carulli et al.  
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3  
; FILE REFERENCE: 032796-021  
; CURRENT APPLICATION NUMBER: US/10374,979  
; CURRENT FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: US 09/544,398  
; PRIOR FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 09/543,771  
; PRIOR FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 09/229,319  
; PRIOR FILING DATE: 1999-01-13  
; PRIOR APPLICATION NUMBER: US 60/071,449  
; PRIOR FILING DATE: 1998-01-13  
; PRIOR APPLICATION NUMBER: US 60/105,511

; PRIOR FILING DATE: 1998-10-23  
; NUMBER OF SEQ ID NOS: 109  
; SEQ ID NO 91  
; LENGTH: 900  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-374-979-91

Query Match 62.8%; Score 401; DB 15; Length 900;  
Best Local Similarity 62.7%; Pred. No. 2.3e-35;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDQGYLFRFTFLEREKCVDTLDFWFCNGFRQNMNKDT---KTLRVAKAI 57  
DB 122 WAESLHSLLDGQDQGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181  
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116  
DB 182 YRKYILDNNGIVSRQTKPATKSPFKGCMKQLIDPAMFDAQTEIOATMEENTYPSFLKS 241  
QY 117 DIYLEY 122  
DB 242 DIYLEY 247

## RESULT 8

US-10-182-936A-91  
; Sequence 91, Application US/10182936A  
; Publication No. US20040038860A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Kristina M.  
; APPLICANT: Anisowicz, Anthony  
; APPLICANT: Bhat, Bheem  
; APPLICANT: Damagnez, Veronique  
; APPLICANT: Robinson, John  
; APPLICANT: Yaworsky, Paul  
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions  
; FILE REFERENCE: 032796-143  
; CURRENT APPLICATION NUMBER: US/10182,936A  
; CURRENT FILING DATE: 2002-08-02  
; PRIOR APPLICATION NUMBER: PCT/US02/15982  
; PRIOR FILING DATE: 2002-05-17  
; PRIOR APPLICATION NUMBER: US 60/291,311  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: US 60/353,058  
; PRIOR FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: US 60/361,293  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 216  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 91  
; LENGTH: 900  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-182-936A-91

Query Match 62.8%; Score 401; DB 15; Length 900;  
Best Local Similarity 62.7%; Pred. No. 2.3e-35;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDQGYLFRFTFLEREKCVDTLDFWFCNGFRQNMNKDT---KTLRVAKAI 57  
DB 122 WAESLHSLLDGQDQGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181  
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116  
DB 182 YRKYILDNNGIVSRQTKPATKSPFKGCMKQLIDPAMFDAQTEIOATMEENTYPSFLKS 241  
QY 117 DIYLEY 122  
DB 242 DIYLEY 247

```
RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match 62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match 62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match 62.8%; Score 401; DB 17; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 12
US-10-092-900A-270
; Sequence 270, Application US/10092900A
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RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match 62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match 62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match 62.8%; Score 401; DB 17; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDQDGAYLFRFTFLERKCVDTLDFWFCACNGFRQMNKLDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLRAI 181

QY 58 YKRYI-ENNSVVSQKLPATKYIRDGIKKQOIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATWEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 12
US-10-092-900A-270
; Sequence 270, Application US/10092900A
```

Publication No. US20040043382A1  
GENERAL INFORMATION:  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Spytek, Kimberly A.  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Taupier Jr., Raymond J.  
APPLICANT: Pena, Carol E.A.  
APPLICANT: Li, Li  
APPLICANT: Zerhusen, Bryan D.  
APPLICANT: Gusev, Vladimir Y.  
APPLICANT: Ji, Weizhen  
APPLICANT: Gorman, Linda  
APPLICANT: Miller, Charles E.  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Patturajan, Meera  
APPLICANT: Gangolli, Bha A.  
APPLICANT: Vernet, Corine A.M.  
APPLICANT: Guo, Xiaojia Sasha  
APPLICANT: Tchernev, Velizar T.  
APPLICANT: Fernandes, Elma R.  
APPLICANT: Casman, Stacie J.  
APPLICANT: Malyankar, Uriel M.  
APPLICANT: Gerlach, Valerie  
APPLICANT: Liu, Yi  
APPLICANT: Anderson, David W.  
APPLICANT: Spaderna, Steven K.  
APPLICANT: Catterton, Elina  
APPLICANT: Leite, Mario W.  
APPLICANT: Zhong, Haihong  
APPLICANT: Alsbrook, John P.  
APPLICANT: Lepley, Denise M.  
APPLICANT: Rieger, Daniel K.  
APPLICANT: Burgess, Catherine E.  
TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 21402-290C  
CURRENT APPLICATION NUMBER: US/10/092,900A  
CURRENT FILING DATE: 2002-03-07  
PRIOR APPLICATION NUMBER: USN 60/274,322  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: USN 60/283,675  
PRIOR FILING DATE: 2001-04-13  
PRIOR APPLICATION NUMBER: USN 60/338,092  
PRIOR FILING DATE: 2001-12-03  
PRIOR APPLICATION NUMBER: USN 60/274,281  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: USN 60/274,191  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: USN 60/325,681  
PRIOR FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: USN 60/304,354  
PRIOR FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: USN 60/279,995  
PRIOR FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: USN 60/294,899  
PRIOR FILING DATE: 2001-05-31  
PRIOR APPLICATION NUMBER: USN 60/287,424  
PRIOR FILING DATE: 2001-04-30  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 768  
SEQ ID NO 270  
LENGTH: 912  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-092-900A-270

Query Match 62.8%; Score 401; DB 15; Length 912;  
Best Local Similarity 62.7%; Pred. No. 2.3e-35;  
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;  
Qy 1 WTKSLHSLDQDQGYLFRFLEREKCVDTLDFWFAACNGFRQMLKDT---KTLRVAKAI 57  
Db 134 WAESLHSLDQDQGYLFRFLEREKCVDTLDFWFAACNGFRQMLKDT---KTLRVAKAI 193

Qy 58 YKRYI-ENNSVSVSKOLKPKATKYIRDGIIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116  
Db 194 YRKIIDNNGIVSRQYKPKATKFKGICIMKQLIDPAMFDQAOEIOATMEENTYPSFLKS 253  
Qy 117 DIYLEY 122  
Db 254 DIYLEY 259

RESULT 13  
US-09-867-550-848  
Sequence 848, Application US/09867550  
Patent No. US20020082206A1  
GENERAL INFORMATION:  
APPLICANT: Leach, Martin D.  
APPLICANT: Mehraban, Fuad,  
APPLICANT: Conley, Pamela  
APPLICANT: Law, Debbie  
APPLICANT: Topper, James  
TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and  
TITLE OF INVENTION: Thereby  
FILE REFERENCE: 21402-013 (Cura-313)  
CURRENT APPLICATION NUMBER: US/09/867,550  
CURRENT FILING DATE: 2001-09-20  
PRIOR APPLICATION NUMBER: USSN 60/208,427  
PRIOR FILING DATE: 2000-05-30  
NUMBER OF SEQ ID NOS: 2125  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 848  
LENGTH: 227  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-867-550-848

Query Match 29.2%; Score 186.5; DB 9; Length 227;  
Best Local Similarity 34.6%; Pred. No. 2.8e-12;  
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLDQDQGYLFRFLEREKCVDTLDFWFAACNGFR-----OMNLKDTKTLRVA 54  
Db 83 WGESFDKLLSHRDGLEAFTRFLKTEPSEENIEFWIACEDFKSKGPOOIHLK-----A 135  
Qy 55 KAIYKRYIENNSVSVSKOLKPKATKYIRDGIIKKQIGSVMFDOAQTEIOAVMEENAYQVFL 114  
Db 136 KAIYKRFIQDAPKEVNLDFHTKEVITNSITQPTLHS--FDAQSRVYQLMEQDSYTRFL 193  
Qy 115 TSDIYLE 121  
Db 194 KSDIYLD 200

RESULT 14  
US-09-894-749-2  
Sequence 2, Application US/09894749  
Patent No. US20020081683A1  
GENERAL INFORMATION:  
APPLICANT: Hodge, Martin R.  
APPLICANT: Yowe, David  
TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof  
FILE REFERENCE: 5800-19, 035800/174680  
CURRENT APPLICATION NUMBER: US/09/894,749  
CURRENT FILING DATE: 2001-06-27  
PRIOR APPLICATION NUMBER: 09/244,314  
PRIOR FILING DATE: 1999-02-04  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 235  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-894-749-2  
Query Match 29.2%; Score 186.5; DB 9; Length 235;





RESULT 2  
US-08-890-865A-1  
; Sequence 1, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890,865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 992 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-1  
Query Match 52.4%; Score 142.5; DB 3; Length 992;  
Best Local Similarity 56.6%; Pred. No. 2.4e-09;  
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;  
QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAELISRLKLEKLESRHSLEERLQ 54  
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Db 492 NGRVPLPHPTRTYRMPKEIR-VEPQKFAEBLIHRLEAVQRTREAEKLEERLK 543

RESULT 3  
US-08-890-865A-4  
; Sequence 4, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890,865A

; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 900 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-08-890-865A-4  
Query Match 52.0%; Score 141.5; DB 3; Length 900;  
Best Local Similarity 56.6%; Pred. No. 2.9e-09;  
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;  
QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAELISRLKLEKLESRHSLEERLQ 54  
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Db 400 NGRVPLPHPTRTYRVPKEVR-VEPQKFAEBLIHRLEAVQRTREAEKLEERLK 451

RESULT 4  
US-09-252-991A-26051  
; Sequence 26051, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26051  
; LENGTH: 271  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-26051  
Query Match 25.6%; Score 69.5; DB 4; Length 271;  
Best Local Similarity 32.1%; Pred. No. 0.69; Indels 15; Gaps 2;  
Matches 18; Conservative 10; Mismatches 13; Indels 15; Gaps 2;  
QY 1 ANQVSLPHFPRTHRLPKEMTPVEPAAFAELISRLKLEKLESRHSLEER 52  
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Db 198 ANGELTSLH-----VPAEPAGYWLLELVRLTLDTGVRVLSGKHAQEW 242

RESULT 5  
US-08-458-023B-2  
; Sequence 2, Application US/08458023B  
; Patent No. 5667990  
; GENERAL INFORMATION:  
; APPLICANT: Berka, Randy M.  
; APPLICANT: Yoder, Wendy  
; APPLICANT: Takagi, Shinobu  
; APPLICANT: Boomnathan, Karuppan C.  
; TITLE OF INVENTION: ASPERGILLUS EXPRESSION SYSTEM  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: No. 5667990o No. 5667990disk of No. 5667990th America, Inc.  
; STREET: 405 Lexington Avenue  
; CITY: New York

	Best Local Similarity	85%, 5; Mismatches	8; Indels	2; Gaps	1;
	Matches	14; Conservative			
QY	1	ANGVSLPHFPR--THRLPKEMTPVEPAA	27		







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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:41:38 ; Search time 18.7599 Seconds  
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Title: US-09-587-574-3

Perfect score: 272

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Minimum DB seq length: 0

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Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
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- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
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- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/2/pubpaa/US10F\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	268	98.5	843	16	US-10-723-860-1797
2	268	98.5	843	16	US-10-751-736-116
3	141.5	52.0	826	16	US-10-786-720-36
4	141.5	52.0	862	16	US-10-786-720-35
5	141.5	52.0	900	15	US-10-374-979-91
6	141.5	52.0	900	15	US-10-182-336A-91
7	141.5	52.0	900	16	US-10-477-238A-670
8	141.5	52.0	900	16	US-10-680-287A-670
9	141.5	52.0	900	17	US-10-477-173-670
10	141.5	52.0	912	15	US-10-092-900A-270
11	136.5	50.2	842	9	US-09-798-831-8

12	118	43.4	25	9	US-09-798-831-6	Sequence 6, Appli
13	118	43.4	25	9	US-09-798-831-7	Sequence 7, Appli
14	114	41.9	25	9	US-09-798-831-5	Sequence 5, Appli
15	68	25.0	2590	15	US-10-072-012-490	Sequence 2, Appli
16	65	23.9	25	9	US-09-798-831-2	Sequence 2, Appli
17	65	23.9	455	17	US-10-926-542-103	Sequence 103, App
18	65	23.9	462	16	US-10-815-495-28	Sequence 28, Appl
19	64	23.5	658	16	US-10-437-963-196297	Sequence 196297,
20	61.5	22.6	995	9	US-09-486-734A-2	Sequence 2, Appli
21	60.5	22.2	373	16	US-10-739-930-10557	Sequence 10557, A
22	60	22.1	120	16	US-10-425-115-213813	Sequence 213813,
23	60	22.1	176	9	US-10-425-115-254698	Sequence 254698,
24	59.5	21.9	176	9	US-09-864-761-48059	Sequence 48059, A
25	59.5	21.9	183	16	US-10-370-715B-740	Sequence 740, App
26	59.5	21.9	213	16	US-10-437-963-190644	Sequence 190644,
27	59.5	21.9	302	16	US-10-437-963-141244	Sequence 141244,
28	59.5	21.9	389	17	US-10-732-923-1342	Sequence 1342, Ap
29	59.5	21.9	410	16	US-10-408-765A-407	Sequence 407, App
30	59.5	21.9	415	16	US-10-437-963-108781	Sequence 108781,
31	59.5	21.9	459	16	US-10-128-558-245	Sequence 245, App
32	59.5	21.9	614	16	US-10-437-963-140936	Sequence 140936,
33	59.5	21.9	833	17	US-10-799-369-15	Sequence 15, Appl
34	59.5	21.9	833	17	US-10-799-369-16	Sequence 16, Appl
35	59.5	21.9	833	17	US-10-799-369-19	Sequence 19, Appl
36	59.5	21.9	833	17	US-10-799-369-20	Sequence 20, Appl
37	59.5	21.9	833	17	US-10-799-369-23	Sequence 23, Appl
38	59.5	21.9	833	17	US-10-799-369-24	Sequence 24, Appl
39	59.5	21.9	833	17	US-10-799-369-27	Sequence 27, Appl
40	59.5	21.9	833	17	US-10-799-369-28	Sequence 28, Appl
41	59.5	21.9	931	16	US-10-437-963-123393	Sequence 123393,
42	59.5	21.9	2613	15	US-10-038-854-42	Sequence 42, Appl
43	59.5	21.9	2628	15	US-10-038-854-40	Sequence 40, Appl
44	59.5	21.9	2715	15	US-10-042-865-52	Sequence 52, Appl
45	59.5	21.9	2715	15	US-10-029-020-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1  
US-10-723-860-1797  
; Sequence 1797, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193.NPUS01  
; CURRENT APPLICATION NUMBER: US/10/723.860  
; CURRENT FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1797  
; LENGTH: 843  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-723-860-1797

Query Match 98.5%; Score 268; DB 16; Length 843;  
Best Local Similarity 98.1%; Pred. No. 4.1e-23;  
Matches 53; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ANGVSLPHPRTHRLPKEMTPVEPAFAAEILSRLEKLELSRHSLEERLQ 54  
Db 343 ANGVSLPHPRTHRLPKEMTPVEPAFAAEILSRLEKLELSRHSLEERLQ 396

RESULT 2  
US-10-751-736-116

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; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match      98.5%; Score 268; DB 16; Length 843;
Best Local Similarity 98.1%; Pred. No. 4.1e-23;
Matches 53; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ANQVSLPHFPRTHRLPKEMTPVPAFAAELISRLEKLEKLESHSLERLQ 54
Db 343 ANQVSLPHFPRTHRLPKEMTPVPAFAAELISRLEKLEKLESHSLERLQ 396

RESULT 3
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match      52.0%; Score 141.5; DB 16; Length 826;
Best Local Similarity 56.6%; Pred. No. 5.4e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVPAFAAELISRLEKLEKLESHSLERLQ 54
Db 363 NGRVPLPHIPRTYRVPKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 414

RESULT 4
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
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; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match      52.0%; Score 141.5; DB 16; Length 862;
Best Local Similarity 56.6%; Pred. No. 5.7e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVPAFAAELISRLEKLEKLESHSLERLQ 54
Db 363 NGRVPLPHIPRTYRVPKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 414

RESULT 5
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match      52.0%; Score 141.5; DB 15; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVPAFAAELISRLEKLEKLESHSLERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 451

RESULT 6
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
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; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match      52.0%; Score 141.5; DB 15; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 7
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      52.0%; Score 141.5; DB 16; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 8
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
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; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      52.0%; Score 141.5; DB 16; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 9
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBV Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      52.0%; Score 141.5; DB 17; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 10
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
```

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/ APPLICANT: Spytek, Kimberly A.
/ APPLICANT: Shenoy, Suresh G.
/ APPLICANT: Taupier, Jr., Raymond J.
/ APPLICANT: Pena, Carol E.A.
/ APPLICANT: Li, Li
/ APPLICANT: Zerhusen, Bryan D.
/ APPLICANT: Gusev, Vladimir Y.
/ APPLICANT: Ji, Weizhen
/ APPLICANT: Gorman, Linda
/ APPLICANT: Miller, Charles E.
/ APPLICANT: Kekuda, Ramesh
/ APPLICANT: Patturajan, Meera
/ APPLICANT: Gangolli, Esha A.
/ APPLICANT: Vernet, Corine A.M.
/ APPLICANT: Guo, Xiaojia Sasha
/ APPLICANT: Tchernev, Velizar T.
/ APPLICANT: Fernandes, Elma R.
/ APPLICANT: Casman, Stacie J.
/ APPLICANT: Malyankar, Uriel M.
/ APPLICANT: Gerlach, Valerie
/ APPLICANT: Liu, Yi
/ APPLICANT: Anderson, David W.
/ APPLICANT: Spaderina, Steven K.
/ APPLICANT: Catterton, Elina
/ APPLICANT: Leite, Mario W.
/ APPLICANT: Zhong, Haihong
/ APPLICANT: Alsobrook, John P.
/ APPLICANT: Lepley, Denise M.
/ APPLICANT: Rieger, Daniel K.
/ APPLICANT: Burgess, Catherine E.
/ TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-230C
/ CURRENT APPLICATION NUMBER: US/10/092,900A
/ PRIOR FILING DATE: 2002-03-07
/ PRIOR APPLICATION NUMBER: USSN 60/274,322
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: USSN 60/283,675
/ PRIOR FILING DATE: 2001-04-13
/ PRIOR APPLICATION NUMBER: USSN 60/338,092
/ PRIOR FILING DATE: 2001-12-03
/ PRIOR APPLICATION NUMBER: USSN 60/274,281
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: USSN 60/274,191
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: USSN 60/325,681
/ PRIOR FILING DATE: 2001-09-27
/ PRIOR APPLICATION NUMBER: USSN 60/304,354
/ PRIOR FILING DATE: 2001-07-10
/ PRIOR APPLICATION NUMBER: USSN 60/279,995
/ PRIOR FILING DATE: 2001-03-30
/ PRIOR APPLICATION NUMBER: USSN 60/294,899
/ PRIOR FILING DATE: 2001-05-31
/ PRIOR APPLICATION NUMBER: USSN 60/287,424
/ PRIOR FILING DATE: 2001-04-30
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 768
/ SEQ ID NO 270
/ LENGTH: 912
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 52.0%; Score 141.5; DB 15; Length 912;
Best Local Similarity 56.6%; Pred. No. 6.1e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHPRTHRLPKEMTPVEPAFAAEELISRLEKLELSRHSLEERLQ 54
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 412 NGRVPLPHIPRTYRVPKEVR-VBFQKFAEELIHRLEAVQRTREAEKLEERLK 463

RESULT 11
US-09-798-831-8

/ APPLICANT: Klein, Peter S.
/ TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
/ TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
/ TITLE OF INVENTION: SIGNALING
/ FILE REFERENCE: 209596.0391/306U1
/ CURRENT APPLICATION NUMBER: US/09/798,831
/ CURRENT FILING DATE: 2001-03-01
/ PRIOR APPLICATION NUMBER: US 60/186,141
/ PRIOR FILING DATE: 2000-03-01
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 842
/ TYPE: PRT
/ ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match 50.2%; Score 136.5; DB 9; Length 842;
Best Local Similarity 53.7%; Pred. No. 2.2e-07;
Matches 29; Conservative 10; Mismatches 14; Indels 1; Gaps 1;

QY 1 ANGQVSLPHPRTHRLPKEMTPVEPAFAAEELISRLEKLELSRHSLEERLQ 54
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 362 ANGRGELPHIPRTYHMPKDI-HVDEKFAEELISRLEGLVRDREAFQKLEERLK 414

RESULT 12
US-09-798-831-6

/ APPLICANT: Klein, Peter S.
/ TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
/ TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
/ TITLE OF INVENTION: SIGNALING
/ FILE REFERENCE: 209596.0391/306U1
/ CURRENT APPLICATION NUMBER: US/09/798,831
/ CURRENT FILING DATE: 2001-03-01
/ PRIOR APPLICATION NUMBER: US 60/186,141
/ PRIOR FILING DATE: 2000-03-01
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 6
/ LENGTH: 25
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Rat axil
/ OTHER INFORMATION: residues 362-386
US-09-798-831-6

Query Match 43.4%; Score 118; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 MTPVEPAFAAEELISRLEKLELE 44
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MTPVEPAFAAEELISRLEKLELE 25

RESULT 13
US-09-798-831-7

/ APPLICANT: Klein, Peter S.
/ TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
/ TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
/ TITLE OF INVENTION: SIGNALING
/ FILE REFERENCE: 209596.0391/306U1
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; CURRENT APPLICATION NUMBER: US/09/798,831  
; CURRENT FILING DATE: 2001-03-01  
; PRIOR APPLICATION NUMBER: US 60/186,141  
; PRIOR FILING DATE: 2000-03-01  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Murine  
; OTHER INFORMATION: conductin residues 362-386  
US-09-798-831-7

Query Match 43.4%; Score 118; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 5.4e-07;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 MTPVEPAFAAELISRLKLELE 44  
Db 1 MTPVEPAFAAELISRLKLELE 25

## RESULT 14

US-09-798-831-5  
; Sequence 5, Application US/09798831  
; Patent No. US20010052137A1  
; GENERAL INFORMATION:  
; APPLICANT: KLEIN, Peter S.  
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN  
; TITLE OF INVENTION: SIGNALING  
; FILE REFERENCE: 209596.0391/30601  
; CURRENT APPLICATION NUMBER: US/09/798,831  
; CURRENT FILING DATE: 2001-03-01  
; PRIOR APPLICATION NUMBER: US 60/186,141  
; PRIOR FILING DATE: 2000-03-01  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Human axin 2  
; OTHER INFORMATION: residues 362-386  
US-09-798-831-5

Query Match 41.9%; Score 114; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.6e-06;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 20 MTPVEPAFAAELISRLKLELE 44  
Db 1 MTPVEPAFAAELISRLKLELE 25

## RESULT 15

US-10-072-012-490  
; Sequence 490, Application US/10072012  
; Publication No. US20040033493A1  
; GENERAL INFORMATION:  
; APPLICANT: Tchernev, Velizar  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Shimkets, Richard  
; APPLICANT: Li, Li  
; APPLICANT: Gangolli, Esha  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Anderson, David W.  
; APPLICANT: Rastelli, Luca

; APPLICANT: Miller, Charles E.  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Taupier Jr, Raymond J.  
; APPLICANT: Gusev, Vladimir Y.  
; APPLICANT: Colman, Steven D.  
; APPLICANT: Wolenc, Adam R.  
; APPLICANT: Pena, Carol E. A  
; APPLICANT: Furtak, Katarzyna  
; APPLICANT: Grosse, William M.  
; APPLICANT: Alsobrook II, John P.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-258  
; CURRENT APPLICATION NUMBER: US/10/072,012  
; CURRENT FILING DATE: 2002-01-31  
; PRIOR APPLICATION NUMBER: 60/265,102  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: 60/265,514  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/265,517  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/265,412  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/265,395  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/266,406  
; PRIOR FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: 60/266,767  
; PRIOR FILING DATE: 2001-02-05  
; PRIOR APPLICATION NUMBER: 60/267,057  
; PRIOR FILING DATE: 2001-02-07  
; PRIOR APPLICATION NUMBER: 60/266,975  
; PRIOR FILING DATE: 2001-02-07  
; PRIOR APPLICATION NUMBER: 60/267,459  
; PRIOR FILING DATE: 2001-02-08  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1391  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 490  
; LENGTH: 2590  
; TYPE: PRT  
; ORGANISM: Danio rerio  
US-10-072-012-490

Query Match 25.0%; Score 68; DB 15; Length 2590;  
Best Local Similarity 31.0%; Pred. No. 1.3e+02;  
Matches 22; Conservative 6; Mismatches 19; Indels 24; Gaps 2;

Qy 3 GOVSLPHFPTRHLPKEMT-----PVEPAFAAELISRLKLELE----- 42  
Db 76 GQSTLPVPPPHKQPSVTALNHNLSRRNVSPAPPALPAELQTTPESVPLQDSWVLG 135  
Qy 43 ----LESRHSI 49  
Db 136 SNVPLESRHFL 146

Search completed: October 25, 2005, 16:16:41  
Job time : 19.7599 secs

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1	332	92.2	843	16	US-10-723-860-1797	Sequence 1797, App
2	332	92.2	843	16	US-10-751-736-116	Sequence 116, App
3	158	43.9	842	9	US-09-798-831-8	Sequence 8, Appl
4	122	33.9	826	16	US-10-786-720-36	Sequence 36, Appl
5	122	33.9	862	16	US-10-786-720-35	Sequence 35, Appl
6	121.5	33.8	912	15	US-10-092-900A-270	Sequence 270, App
7	113.5	31.5	900	15	US-10-374-979-91	Sequence 91, Appl
8	113.5	31.5	900	15	US-10-182-936A-91	Sequence 91, Appl
9	113.5	31.5	900	16	US-10-477-238A-670	Sequence 670, App
10	113.5	31.5	900	16	US-10-680-287A-670	Sequence 670, App
11	113.5	31.5	900	17	US-10-477-173-670	Sequence 670, App

```
RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match          92.2%; Score 332; DB 16; Length 843;
Best Local Similarity 89.9%; Pred. No. 5.3e-30;
Matches 62; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 QTRDEKEGSEQALSSRDGAPVQHPLALLPGSYVEDPQTLLDHLRLVLTGCGSPG 60
DB 397 QTRDEBERGSELTLSREGAPTQHPLSLLPFGSYVEDPQTLLDHLRLVLTGCGSPG 456

QY 61 VGRYSRPSR 69
DB 457 VGRYSRPSR 465

RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match          43.9%; Score 158; DB 9; Length 842;
Best Local Similarity 40.0%; Pred. No. 1.1e-09;
Matches 34; Conservative 14; Mismatches 11; Indels 26; Gaps 3;

QY 7 EKEGSEQALSSRDGAPVQHPLALLPSG-----SYEDPQTILD 44
DB 419 EEEGDGDDVSGGSV--ISHK---LPSGPFMHFNRSYETGCVGMQIRDAHENPESILD 474

QY 45 DHLRLVLTGCGSPGVGRYSRPSR 69
DB 475 EHVQVMKTPGCGSPGGRHSPKSR 499
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RESULT 4
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match          33.9%; Score 122; DB 16; Length 826;
Best Local Similarity 35.8%; Pred. No. 3.1e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS-----G 33
DB 403 REAEKLEERLKRVRMEEGEDGDPSSGPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDHLRLVLTGCGSPGVGRYSRPS 68
DB 462 AHEENPESILDEHVQVRLTPTGQSPGGRHSPDS 496

RESULT 5
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match          33.9%; Score 122; DB 16; Length 862;
Best Local Similarity 35.8%; Pred. No. 3.3e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS-----G 33
DB 403 REAEKLEERLKRVRMEEGEDGDPSSGPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDHLRLVLTGCGSPGVGRYSRPS 68
DB 462 AHEENPESILDEHVQVRLTPTGQSPGGRHSPDS 496

RESULT 6
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
```

```

: GENERAL INFORMATION:
: APPLICANT: Padigaru, Muralidhara
: APPLICANT: Spytek, Kimberly A.
: APPLICANT: Shenoy, Suresh G.
: APPLICANT: Taupier Jr., Raymond J.
: APPLICANT: Pena, Carol E.A.
: APPLICANT: Li, Li
: APPLICANT: Zerhusen, Bryan D.
: APPLICANT: Gusev, Vladimir Y.
: APPLICANT: Ji, Weizhen
: APPLICANT: Gorman, Linda
: APPLICANT: Miller, Charles E.
: APPLICANT: Kekuda, Ramesh
: APPLICANT: Patturajan, Meera
: APPLICANT: Gangolli, Baha A.
: APPLICANT: Vernet, Corine A.M.
: APPLICANT: Guo, Xiaojia Sasha
: APPLICANT: Tchernev,, Velizar T.
: APPLICANT: Fernandes, Elma R.
: APPLICANT: Casman, Stacie J.
: APPLICANT: Malyankar, Uriel M.
: APPLICANT: Gerlach, Valerie
: APPLICANT: Liu, Yi
: APPLICANT: Anderson, David W.
: APPLICANT: Spaderna, Steven K.
: APPLICANT: Catterton, Elna
: APPLICANT: Leite, Mario W.
: APPLICANT: Zhong, Haihong
: APPLICANT: Alsobrook, John P.
: APPLICANT: Lepley, Denise M.
: APPLICANT: Rieger, Daniel K.
: APPLICANT: Burgess, Catherine E.
: TITLE OF INVENTION: No. US20040043382A1e1 Proteins and Nucleic Acids Encoding Same
: FILE REFERENCE: 21402-290C
: CURRENT APPLICATION NUMBER: US/10/092,900A
: CURRENT FILING DATE: 2002-03-07
: PRIOR APPLICATION NUMBER: USSN 60/274,322
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/283,675
: PRIOR FILING DATE: 2001-04-13
: PRIOR APPLICATION NUMBER: USSN 60/338,092
: PRIOR FILING DATE: 2001-12-03
: PRIOR APPLICATION NUMBER: USSN 60/274,281
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/274,191
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/325,681
: PRIOR FILING DATE: 2001-09-27
: PRIOR APPLICATION NUMBER: USSN 60/304,354
: PRIOR FILING DATE: 2001-07-10
: PRIOR APPLICATION NUMBER: USSN 60/279,995
: PRIOR FILING DATE: 2001-03-30
: PRIOR APPLICATION NUMBER: USSN 60/294,899
: PRIOR FILING DATE: 2001-05-31
: PRIOR APPLICATION NUMBER: USSN 60/287,424
: PRIOR FILING DATE: 2001-04-30
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 768
: SEQ ID NO 270
: LENGTH: 912
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 33.8%; Score 121.5; DB 15; Length 912;
Best Local Similarity 35.4%; Pred. No. 4e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 31; Gaps 3;

Qy 3 REDEEK-----EGSEQALSRRDGNVPVOHPLALLPS----- 32
Db 452 REAEKLEERLKRVMEEDGEDGPPSGPGFC-HKLPPAPAMHHFPPLCWTWACAGLR 510
V 33 GSVEEDPOTLDDHLRSVLKTPGCOSPGVGGRYSPRS 68

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RESULT 12
US-10-425-115-227845
; Sequence 227845, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227845
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(218)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_139390C.1.pep
US-10-425-115-227845

Query Match 20.8%; Score 75; DB 16; Length 218;
Best Local Similarity 29.5%; Pred. No. 2.1;
Matches 23; Conservative 6; Mismatches 29; Indels 20; Gaps 3;

Qy 1 QIREDEKESGEQALSSRDGA-----PVQHPALLPSSGYEEDPQTILD-----D 45
Db 85 RVRNGDRSSQSPAKQSGREGVGLSLDIPQLHDLAVRPSKDESPDAALDFSPHSDHSQ 144

Qy 46 HLSRVLTKP-----GCOS 58
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 13
US-10-437-963-124794
; Sequence 124794, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 124794
; LENGTH: 1487
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_27499C.1.pep
US-10-437-963-124794

Query Match 20.8%; Score 75; DB 16; Length 1487;
Best Local Similarity 31.1%; Pred. No. 23;
Matches 23; Conservative 15; Mismatches 20; Indels 16; Gaps 3;

Qy 4 EDEKEGSEQ-----ALSSRDGAPVQHPALLPSSGY--EEDPQTILDHLSRVLTKP 54
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 14
US-10-425-115-227847
; Sequence 227847, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227847
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_139392C.1.pep
US-10-425-115-227847

Query Match 20.3%; Score 73; DB 16; Length 175;
Best Local Similarity 29.6%; Pred. No. 2.7;
Matches 21; Conservative 8; Mismatches 28; Indels 14; Gaps 3;

Qy 1 QIREDEKESGEQALSSRDGA-----PVQHPALLPSSGYEEDPQTIL-----DDHLS 48
Db 85 RVRNGDRSSQSPAKQSGREGVGLSLDIPQLHDLAVRPSKDESPDAALDFSPHSDHSQ 144

Qy 49 RVLKTPGCCSP 59
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 15
US-10-425-115-205230
; Sequence 205230, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 205230
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_118759C.1.pep
US-10-425-115-205230

Query Match 20.1%; Score 72.5; DB 16; Length 182;
Best Local Similarity 29.8%; Pred. No. 3.3;
Matches 17; Conservative 10; Mismatches 19; Indels 11; Gaps 1;

Qy 3 REDEKEGSEQALSSRDGAPVQHPALLPSSGYEEDPQTILDDHLSRVLTKPQCQSP 59
Db 13 KDRREFGAAAKEK-----LVPSHQOQSPASVVDKDSGVSVPGDSP 58
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Search completed: October 25, 2005, 16:16:42  
Job time : 24.971 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 5.34037 Seconds  
(without alignments)  
964.500 Million cell updates/sec

Title: US-09-587-574-4  
Perfect score: 360  
Sequence: 1 QIREDEKEGSEQLSSRDG.....VLKTPGQSPGVGRYSPRSR 69

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pcp.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	146	40.6	855	3	US-08-890-865A-10
2	139.5	38.8	992	3	US-08-890-865A-1
3	113.5	31.5	900	3	US-08-890-865A-4
4	72.5	20.1	1088	4	US-09-920-804-2
5	72.5	20.1	1129	4	US-09-734-674-2
6	68.5	19.0	441	3	US-08-764-870-9
7	68.5	19.0	441	3	US-08-980-115-9
8	68.5	19.0	441	4	US-09-166-265-7
9	68.5	19.0	500	4	US-09-949-016-11597
10	67.5	18.8	595	4	US-09-252-991A-17434
11	66.5	18.5	441	4	US-09-976-594-1000
12	65	18.1	90	4	US-09-270-767-40580
13	65	18.1	90	4	US-09-270-767-55796
14	64	17.8	605	4	US-09-949-016-11347
15	64	17.8	878	4	US-09-902-540-11650
16	63.5	17.6	434	2	US-08-710-249-4
17	63.5	17.6	434	3	US-08-220-157A-4
18	62.5	17.4	1042	3	US-08-928-361B-11
19	62.5	17.4	1042	4	US-08-588-995A-11
20	62.5	17.4	1837	3	US-08-928-361B-5
21	62.5	17.4	1837	4	US-08-588-995A-5
22	62	17.2	348	3	US-08-415-655-5
23	62	17.2	348	3	US-08-415-655-13
24	62	17.2	348	3	US-08-415-655-15
25	62	17.2	545	4	US-09-248-796A-15777
26	61.5	17.1	99	4	US-09-248-796A-22041
27	61.5	17.1	203	4	US-09-270-767-58525

ALIGNMENTS

RESULT 1  
US-08-890-865A-10  
; Sequence 10, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; APPLICANT: Zeng, Li  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890,865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 855 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
; US-08-890-865A-10

Query Match 40.6%; Score 146; DB 3; Length 855;  
Best Local Similarity 34.7%; Pred. No. 9.3e-10;  
Matches 35; Conservative 14; Mismatches 14; Indels 38; Gaps 4;  
Qy 3 REEEK-----EGSEQLSSRDGAPVQHPLALLPSG----- 33  
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Db 417 REAEKLEERKVRAEEDGADISSGPSV-ISHK---MPSAQPFHFAPRYSEMGCAG 472  
Qy 34 -----SVEDPQTILDDHLSRLKTPGQSPGVGRYSPRSR 69





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; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001018
; CURRENT APPLICATION NUMBER: US/09/734,674
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Human
; US-09-734-674-2

Query Match 20.1%; Score 72.5; DB 4; Length 1129;
Best Local Similarity 38.3%; Pred. No. 3.3;
Matches 18; Conservative 6; Mismatches 18; Indels 5; Gaps 2;

QY 4 EDEKEGSEQALSRDGPVQHPLALLPGSGSYEDPQTI-LDDHLGR 49
Db 1059 EDAKEEQSLAMEDEGTQLPL-----EGHYRDDPSVINSDMSK 1101

RESULT 6
US-08-764-870-9
; Sequence 9, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kuehner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian
; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
; TITLE OF INVENTION: Binding Domains
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward
; STREET: Five Palo Alto Square, 3000 El Camino Real
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,870
; FILING DATE: 13-DEC-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,540
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,543
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,606
; FILING DATE: 14-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Nakamura, Jackie N
; REGISTRATION NUMBER: 35,966
; REFERENCE/DOCKET NUMBER: UCAL-246/0105
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)843-5000
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 441 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; US-08-764-870-9

Query Match 19.0%; Score 68.5; DB 3; Length 441;
Best Local Similarity 30.3%; Pred. No. 3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY 1 QIREDEKEGSEQALSRDGPVQH--PLALLPGSGSYEE-----DPQTILDDHLHSLVLT 53
Db 10 EVREEEKEEVAEA-----EGAPELNGGPQHLPSSSYTDLSSSSPPLLDQ-----LQ 59

QY 54 PGCSQSGVGRYSPRSR 69
Db 60 MGCDGASCGSLNMECR 75

RESULT 7
US-08-980-115-9
; Sequence 9, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kuehner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian L
; APPLICANT: Shiau, Andrew K
; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/0205
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (168)..(441)
; OTHER INFORMATION: minimal ligand binding domain
; US-08-980-115-9

Query Match 19.0%; Score 68.5; DB 3; Length 441;
Best Local Similarity 30.3%; Pred. No. 3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

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Db 10 EVREEEKEEVAEA-----EGAPELNGGPQHLPSSSYTDLSSSSPPLLDQ-----LQ 59

QY 54 PGCSQSGVGRYSPRSR 69
Db 60 MGCDGASCGSLNMECR 75

RESULT 8
US-09-166-265-7
; Sequence 7, Application US/09166265
; Patent No. 6689574
; GENERAL INFORMATION:
; APPLICANT: Cummings, Richard T
; APPLICANT: Hermes, Jeffrey D
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; SEQ ID NO 40580
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-40580

Query Match
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Best Local Similarity
  28.3%; Pred. No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

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DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

RESULT 13
US-09-270-767-55796
; Sequence 55796, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55796
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-55796

Query Match
  18.1%; Score 65; DB 4; Length 90;
Best Local Similarity
  28.3%; Pred. No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

QY 2 IREDEKEGSEQALSSRDGAPVQHPLALLPSGSYEEDPQTILDDHLSRVLTPT 54
DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

RESULT 14
US-09-949-016-11347
; Sequence 11347, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11347
; LENGTH: 605
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11347

Query Match
  17.8%; Score 64; DB 4; Length 605;
Best Local Similarity
  27.7%; Pred. No. 17;
Matches 18; Conservative 16; Mismatches 21; Indels 10; Gaps 5;

QY 2 IREDE---EKEGSEQALSSRDGAP---VOHPLALLPSGSYEEDPQT-ILDDHLSRVLTPT 54
DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

; SEQ ID NO 40580
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-40580

Query Match
  18.1%; Score 65; DB 4; Length 90;
Best Local Similarity
  28.3%; Pred. No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

QY 2 IREDEKEGSEQALSSRDGAPVQHPLALLPSGSYEEDPQTILDDHLSRVLTPT 54
DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

RESULT 13
US-09-270-767-55796
; Sequence 55796, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55796
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-55796

Query Match
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Best Local Similarity
  28.3%; Pred. No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

QY 2 IREDEKEGSEQALSSRDGAPVQHPLALLPSGSYEEDPQTILDDHLSRVLTPT 54
DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

RESULT 14
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; Sequence 11347, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11347
; LENGTH: 605
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11347

Query Match
  17.8%; Score 64; DB 4; Length 605;
Best Local Similarity
  27.7%; Pred. No. 17;
Matches 18; Conservative 16; Mismatches 21; Indels 10; Gaps 5;

QY 2 IREDE---EKEGSEQALSSRDGAP---VOHPLALLPSGSYEEDPQT-ILDDHLSRVLTPT 54
DB 7 LRPKQEKQSNHQLNNSKPNNSDSKISSGSVENTSSATNGPHSNSTLPTP 59

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 3.94723 Seconds  
(without alignments)  
964.500 Million cell updates/sec

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Perfect score: 276  
Sequence: 1 LTGHEQKLSKGNRYRFF.....VFEEIWDDETVLPMYEGRIL 51

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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3: /cgn2\_6/ptodata/1/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp.\*  
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6: /cgn2\_6/ptodata/1/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	197	71.4	855 3	US-08-890-865A-10
2	191	69.2	900 3	US-08-890-865A-4
3	190	68.8	51 3	US-08-890-865A-23
4	190	68.8	992 3	US-08-890-865A-1
5	109.5	39.7	50 3	US-08-890-865A-22
6	102	37.0	49 3	US-08-890-865A-21
7	102	37.0	738 4	US-09-949-016-10957
8	95.5	34.6	716 4	US-09-949-016-6495
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10	85	30.8	313 4	US-09-270-767-43189
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15	61	22.1	601 4	US-09-900-797-42
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17	55.5	20.1	366 4	US-09-270-767-48144
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21	55	19.9	1055 3	US-09-256-430-5
22	55	19.9	1055 3	PCT-US96-11445-5
23	54.5	19.7	187 3	US-09-347-878-28
24	54.5	19.7	376 4	US-09-328-352-7587
25	54.5	19.7	566 1	US-08-415-823-4
26	54.5	19.7	566 2	US-09-086-662-4
27	54.5	19.7	1016 4	US-09-625-972-24

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29	53	19.2	309	2	US-08-993-118-10	Sequence 10, Appl
30	53	19.2	309	3	US-08-845-528C-10	Sequence 10, Appl
31	53	19.2	309	4	US-08-627-820-24	Sequence 24, Appl
32	53	19.2	309	4	US-09-066-281B-10	Sequence 10, Appl
33	53	19.2	309	4	US-09-468-433C-10	Sequence 10, Appl
34	53	19.2	309	4	US-09-392-714-29	Sequence 29, Appl
35	53	19.2	309	4	US-09-949-016-6574	Sequence 6574, Ap
36	53	19.2	355	4	US-09-949-016-8559	Sequence 8559, Ap
37	53	19.2	1332	2	US-08-971-244-2	Sequence 2, Appli
38	53	19.2	1332	3	US-09-286-891-2	Sequence 2, Appli
39	52.5	19.0	158	4	US-09-206-551-56	Sequence 56, Appl
40	52.5	19.0	329	4	US-08-981-527A-8	Sequence 8, Appli
41	52.5	19.0	329	4	US-10-147-936B-8	Sequence 8, Appli
42	52.5	19.0	477	2	US-08-432-016-3	Sequence 3, Appli
43	52.5	19.0	477	2	US-08-684-594-3	Sequence 3, Appli
44	52	18.8	227	3	US-08-213-419B-13	Sequence 13, Appl
45	52	18.8	548	4	US-09-270-767-42681	Sequence 42681, A

ALIGNMENTS

RESULT 1  
US-08-890-865A-10  
; Sequence 10, Application US/08890865A  
; Patent No. 6307019  
; GENERAL INFORMATION:  
; APPLICANT: Constantini, Franklin  
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: US  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/890, 865A  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/54249  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)278-0400  
; TELEFAX: (212)391-0526  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 855 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
; US-08-890-865A-10

Query Match 71.4%; Score 197; DB 3; Length 855;  
Best Local Similarity 66.7%; Pred. No. 4.5e-19;  
Matches 34; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

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Db 798 VTLLGQFKELLTKGNRYRFFKVSDEFDCGVVFEEVREDTILPFEEKII 848

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US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; LENGTH: 900 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-4
Query Match 69.2%; Score 191; DB 3; Length 900;
Best Local Similarity 66.7%; Pred. No. 3.3e-18;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

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RESULT 3
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; Sequence 23, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-23
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Best Local Similarity 66.7%; Pred. No. 5.2e-18;
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RESULT 4
US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-1
Query Match 68.8%; Score 190; DB 3; Length 992;
Best Local Similarity 66.7%; Pred. No. 1.4e-19;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

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Sequence 22, Application US/08890865A  
Patent No. 6307019  
GENERAL INFORMATION:  
APPLICANT: Constantini, Franklin  
APPLICANT: Zeng, Li  
TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: US  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/890,865A  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 0575/54249  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)278-0400  
TELEFAX: (212)391-0526  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 49 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-890-865A-21  
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US-09-949-016-10957  
Sequence 10957, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10957  
LENGTH: 738  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-10957  
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Matches 21; Conservative 8; Mismatches 20; Indels 2; Gaps 1;  
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Sequence 6495, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

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US-08-890-865A-22  
Sequence 22, Application US/08890865A  
Patent No. 6307019  
GENERAL INFORMATION:  
APPLICANT: Constantini, Franklin  
APPLICANT: Zeng, Li  
TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: US  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/890,865A  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 0575/54249  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)278-0400  
TELEFAX: (212)391-0526  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 50 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-890-865A-22  
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Best Local Similarity 46.2%; Pred. No. 3.2e-08;  
Matches 24; Conservative 10; Mismatches 15; Indels 3; Gaps 2;  
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US-08-890-865A-21  
Sequence 21, Application US/08890865A  
Patent No. 6307019  
GENERAL INFORMATION:  
APPLICANT: Constantini, Franklin  
APPLICANT: Zeng, Li  
TITLE OF INVENTION: AXIN GENE AND USES THEREOF  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: US  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible





RESULT 14  
US-09-903-012B-42  
; Sequence 42, Application US/09903012B  
; Patent No. 6569656  
; GENERAL INFORMATION:  
; APPLICANT: Chappell, Joseph

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Post-processing: Maximum Match 0%  
Listing first 100% summaries

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- 19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	272	98.6	843	US-10-751-736-116
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6	191	69.2	826	US-10-786-720-36
7	191	69.2	862	US-10-786-720-35
8	191	69.2	900	US-10-374-979-91
9	191	69.2	900	US-10-182-936A-91
10	191	69.2	900	US-10-477-238A-670
11	191	69.2	900	US-10-680-287A-670

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13	191	69.2	912	15	US-10-092-900A-270	Sequence 270, App
14	111	40.2	211	15	US-10-094-749-2052	Sequence 2052, Ap
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16	111	40.2	472	15	US-10-112-944-300	Sequence 300, App
17	109.5	39.7	623	15	US-10-464-939-12	Sequence 12, Appl
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20	95.5	34.6	595	15	US-10-307-928A-18	Sequence 18, Appl
21	95.5	34.6	716	16	US-10-678-639-41	Sequence 41, Appl
22	95	34.4	198	17	US-10-938-249-465	Sequence 465, App
23	95	34.4	670	16	US-10-678-639-42	Sequence 42, Appl
24	95	34.4	695	13	US-10-013-310-3	Sequence 3, Appli
25	95	34.4	695	13	US-10-682-230-3	Sequence 3, Appli
26	90.5	32.8	341	17	US-10-938-249-464	Sequence 464, App
27	85	30.8	745	20	US-11-097-143-3015	Sequence 3015, Ap
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33	61.5	22.3	528	16	US-10-425-115-208133	Sequence 208133,
34	61	22.1	601	9	US-09-895-752-42	Sequence 42, Appl
35	61	22.1	601	9	US-09-887-586A-42	Sequence 42, Appl
36	61	22.1	601	9	US-09-903-012-42	Sequence 42, Appl
37	61	22.1	601	10	US-09-900-797-42	Sequence 42, Appl
38	61	22.1	601	11	US-09-893-820-42	Sequence 42, Appl
39	61	22.1	1896	15	US-10-296-734-393	Sequence 393, App
40	61	22.1	5747	15	US-10-296-734-405	Sequence 405, App
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43	59.5	21.6	498	15	US-10-369-493-20438	Sequence 20438, A
44	59	21.4	504	15	US-10-359-369-31	Sequence 31, Appl
45	59	21.4	511	9	US-09-773-882-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-10-106-698-5828  
; Sequence 5828, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 5828  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (5)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (7)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (12)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (48)



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RESULT 6
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match          69.2%; Score 191; DB 16; Length 826;
Best Local Similarity 66.7%; Pred. No. 6e-17; Indels      0; Gaps      0;
Matches   34; Conservative    9; Mismatches     8;

QY       1 LTLGHFKEQLSKGNYRYFKKASDFACGAVFEIWDDETLPMTVEGRIL 51
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RESULT 7
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match          69.2%; Score 191; DB 16; Length 862;
Best Local Similarity 66.7%; Pred. No. 6.3e-17; Indels      0; Gaps      0;
Matches   34; Conservative    9; Mismatches     8;

QY       1 LTLGHFKEQLSKGNYRYFKKASDFACGAVFEIWDDETLPMTVEGRIL 51
         :||| ||| |:|||:||| ||| ||| ||| ||| ||| ||| ::||::| |:
Db        805 VTLLGFKEALLTKKSIRYYFKKVDSFDCCGVFFEVREDEAVLPVFEKKII 855


RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
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; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match          69.2%; Score 191; DB 16; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY      1   LTLGHFKQLSKGNRYRYPFKASDEPACGAVPEEIWDDTETVLPVMEGRIL 51
         :||| ||| |:||||:||||| ||||| :||||: |||||:::||:
Db       843 VTLGGFKELLTKGSRYRYPFKKVSDEPDGCVFEEVREDEAVLVPVEEKII 893

RESULT 11
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babji, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match          69.2%; Score 191; DB 16; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY      1   LTLGHFKQLSKGNRYRYPFKASDEPACGAVPEEIWDDTETVLPVMEGRIL 51
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RESULT 12
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
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;; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 21402-290C  
;; CURRENT APPLICATION NUMBER: US/10/092,900A  
;; PRIOR FILING DATE: 2002-03-07  
;; PRIOR APPLICATION NUMBER: USN 60/274,322  
;; PRIOR FILING DATE: 2001-03-08  
;; PRIOR APPLICATION NUMBER: USN 60/283,675  
;; PRIOR FILING DATE: 2001-04-13  
;; PRIOR APPLICATION NUMBER: USN 60/338,092  
;; PRIOR FILING DATE: 2001-12-03  
;; PRIOR APPLICATION NUMBER: USN 60/274,281  
;; PRIOR FILING DATE: 2001-03-08  
;; PRIOR APPLICATION NUMBER: USN 60/274,191  
;; PRIOR FILING DATE: 2001-03-08  
;; PRIOR APPLICATION NUMBER: USN 60/325,681  
;; PRIOR FILING DATE: 2001-09-27  
;; PRIOR APPLICATION NUMBER: USN 60/304,354  
;; PRIOR FILING DATE: 2001-07-10  
;; PRIOR APPLICATION NUMBER: USN 60/279,995  
;; PRIOR FILING DATE: 2001-03-30  
;; PRIOR APPLICATION NUMBER: USN 60/294,899  
;; PRIOR FILING DATE: 2001-05-31  
;; PRIOR APPLICATION NUMBER: USN 60/287,424  
;; PRIOR FILING DATE: 2001-04-30  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 768  
;; SEQ ID NO 270  
;; LENGTH: 912  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-092-900A-270

Query Match 69.2%; Score 191; DB 15; Length 912;  
Best Local Similarity 66.7%; Pred. No. 6.8e-17;  
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTLGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDETFLPMEGRIL 51  
Db 855 VTLGQFKELLTKGSRIRYFKKVSDEFDCGVVFEEVREDEAVLPFEEKII 905

RESULT 14  
US-10-094-749-2052  
;; Sequence 2052, Application US/10094749  
;; Publication No. US20030219741A1  
;; GENERAL INFORMATION:  
;; APPLICANT: ISOGAI, TAKAO  
;; APPLICANT: SUGIYAMA, TOMOYASU  
;; APPLICANT: OTSUKI, TETSUJI  
;; APPLICANT: WAKAMATSU, AI  
;; APPLICANT: SATO, HIROYUKI  
;; APPLICANT: ISHII, SHIZUKO  
;; APPLICANT: YAMAMOTO, JUN-ICHI  
;; APPLICANT: ISONO, YUUKO  
;; APPLICANT: HIO, YURI  
;; APPLICANT: OTSUKA, KAORU  
;; APPLICANT: NAGAI, KEIICHI  
;; APPLICANT: IRIE, RYOTARO  
;; APPLICANT: TAMECHIKA, ICHIRO  
;; APPLICANT: SEKI, NAOHICO  
;; APPLICANT: YOSHIKAWA, TSUTOMU  
;; APPLICANT: OTSUKA, MOTOYUKI  
;; APPLICANT: NAGAHARI, KENJI  
;; APPLICANT: MASUHO, YASUHIKO  
;; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
;; FILE REFERENCE: 084335/0160  
;; CURRENT APPLICATION NUMBER: US/10/094,749  
;; CURRENT FILING DATE: 2002-03-12  
;; PRIOR APPLICATION NUMBER: 60/350,435  
;; PRIOR FILING DATE: 2002-01-24  
;; PRIOR APPLICATION NUMBER: JP 2001-328381  
;; PRIOR FILING DATE: 2001-09-14  
;; NUMBER OF SEQ ID NOS: 3381

;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 2052  
;; LENGTH: 211  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-094-749-2052

Query Match 40.2%; Score 111; DB 15; Length 211;  
Best Local Similarity 43.1%; Pred. No. 1.1e-06;  
Matches 22; Conservative 12; Mismatches 15; Indels 2; Gaps 1;

Qy 1 LTLGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDETFLPMEGRIL 51  
Db 153 VTLKDFKAAIDREGNHRHYFKALDPEF--GTVKKEIFHDDDDAIPGWEGKIV 201

RESULT 15  
US-10-094-749-2273  
;; Sequence 2273, Application US/10094749  
;; Publication No. US20030219741A1  
;; GENERAL INFORMATION:  
;; APPLICANT: ISOGAI, TAKAO  
;; APPLICANT: SUGIYAMA, TOMOYASU  
;; APPLICANT: OTSUKI, TETSUJI  
;; APPLICANT: WAKAMATSU, AI  
;; APPLICANT: SATO, HIROYUKI  
;; APPLICANT: ISHII, SHIZUKO  
;; APPLICANT: YAMAMOTO, JUN-ICHI  
;; APPLICANT: ISONO, YUUKO  
;; APPLICANT: HIO, YURI  
;; APPLICANT: OTSUKA, KAORU  
;; APPLICANT: NAGAI, KEIICHI  
;; APPLICANT: IRIE, RYOTARO  
;; APPLICANT: TAMECHIKA, ICHIRO  
;; APPLICANT: SEKI, NAOHICO  
;; APPLICANT: YOSHIKAWA, TSUTOMU  
;; APPLICANT: OTSUKA, MOTOYUKI  
;; APPLICANT: NAGAHARI, KENJI  
;; APPLICANT: MASUHO, YASUHIKO  
;; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
;; FILE REFERENCE: 084335/0160  
;; CURRENT APPLICATION NUMBER: US/10/094,749  
;; CURRENT FILING DATE: 2002-03-12  
;; PRIOR APPLICATION NUMBER: 60/350,435  
;; PRIOR FILING DATE: 2002-01-24  
;; PRIOR APPLICATION NUMBER: JP 2001-328381  
;; PRIOR FILING DATE: 2001-09-14  
;; NUMBER OF SEQ ID NOS: 3381  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 2273  
;; LENGTH: 437  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-094-749-2273

Query Match 40.2%; Score 111; DB 15; Length 437;  
Best Local Similarity 43.1%; Pred. No. 2.5e-06;  
Matches 22; Conservative 12; Mismatches 15; Indels 2; Gaps 1;

Qy 1 LTLGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDETFLPMEGRIL 51  
Db 379 VTLKDFKAAIDREGNHRHYFKALDPEF--GTVKKEIFHDDDDAIPGWEGKIV 427

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 25, 2005, 15:41:38 ; Search time 291.821 Seconds  
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Title: US-09-587-574-1

Perfect score: 4445

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Gapop 10.0 , Gapext 0.5

Searched: 1862994 seqs, 417510619 residues

Total number of hits satisfying chosen parameters: 1862994

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4027.5	90.6	843	16	US-10-723-860-1797
2	4027.5	90.6	843	16	US-10-751-736-116
3	1654.5	37.2	842	9	US-09-798-831-8
4	1619.5	36.4	862	16	US-10-786-720-35
5	1617	36.4	912	15	US-10-092-500A-270
6	1615.5	36.3	347	15	US-10-264-049-2846
7	1612.5	36.3	826	16	US-10-786-720-36
8	1605	36.1	900	15	US-10-374-979-91
9	1605	36.1	900	15	US-10-182-936A-91
10	1605	36.1	900	16	US-10-477-238A-670
11	1605	36.1	900	16	US-10-680-287A-670

12	1605	36.1	900	17	US-10-477-173-670	Sequence 670, App
13	860	19.3	461	16	US-10-786-720-34	Sequence 34, Appl
14	733	16.5	155	14	US-10-106-698-5828	Sequence 5828, Ap
15	457.5	10.3	745	20	US-11-097-143-3015	Sequence 3015, Ap
16	208	4.7	227	9	US-09-867-550-848	Sequence 848, App
17	208	4.7	235	9	US-09-894-743-2	Sequence 2, Appli
18	208	4.7	235	15	US-10-258-371B-20	Sequence 20, Appl
19	208	4.7	235	18	US-10-989-054-2	Sequence 2, Appli
20	198.5	4.5	916	18	US-10-899-422-13	Sequence 13, Appl
21	198.5	4.5	1059	18	US-10-899-422-11	Sequence 11, Appl
22	194	4.4	276	13	US-10-087-192-1728	Sequence 1728, Ap
23	193	4.3	235	9	US-09-894-743-4	Sequence 4, Appli
24	193	4.3	235	18	US-10-989-054-4	Sequence 4, Appli
25	190.5	4.3	284	15	US-10-094-749-1650	Sequence 1650, Ap
26	189.5	4.3	519	14	US-10-113-794A-2	Sequence 2, Appli
27	189.5	4.3	519	15	US-10-428-487-14	Sequence 14, Appl
28	189.5	4.3	519	15	US-10-258-371B-28	Sequence 28, Appl
29	189.5	4.3	591	15	US-10-108-260A-3970	Sequence 3970, Ap
30	189.5	4.3	917	18	US-10-487-092-15	Sequence 15, Appl
31	184.5	4.2	119	15	US-10-087-684-107	Sequence 107, App
32	184.5	4.2	119	15	US-10-218-770-152	Sequence 152, App
33	182	4.1	923	15	US-10-114-270-152	Sequence 1, Appli
34	180	4.0	930	14	US-10-113-794A-1	Sequence 10101, A
35	175.5	3.9	1175	20	US-11-097-143-10101	Sequence 385, App
36	174.5	3.9	566	16	US-10-473-127-385	Sequence 4, Appli
37	172.5	3.9	211	9	US-09-206-639-4	Sequence 24, Appl
38	172.5	3.9	211	15	US-10-258-371B-24	Sequence 493, App
39	172.5	3.9	211	16	US-10-408-765A-493	Sequence 1507, Ap
40	172.5	3.9	220	9	US-09-925-300-1507	Sequence 812, App
41	168	3.8	207	9	US-09-925-297-812	Sequence 387, App
42	168	3.8	487	16	US-10-473-127-387	Sequence 26, Appl
43	167	3.8	167	15	US-10-258-371B-26	Sequence 3, Appli
44	166	3.7	196	9	US-09-206-639-3	Sequence 339, App
45	166	3.7	196	9	US-09-736-457-339	

#### ALIGNMENTS

RESULT 1  
US-10-723-860-1797  
; Sequence 1797, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193.NPUS01  
; CURRENT APPLICATION NUMBER: US/10723.860  
; CURRENT FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1797  
; LENGTH: 843  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-723-860-1797

Query Match	90.6%	Score	4027.5	DB	16	Length	843
Best Local Similarity	89.7%	Pred. No.	1.1e-276				
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Gaps							3
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DB 121 NLKDTKTLRVAKAIYKRYIENNSIVSKQLPKATKTYIRDGIIKKQIQSDSIMFQAOQTEIOS 180
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DB 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPLTNEEBEWTCADPK 240
QY 241 CKLSPTVTVGLSSKTLRATASVRSSTETAEANGFRSFKSDPVPNVYHVGSGVVFAPATSANDS 300
DB 241 CKLSPTVTVGLSSKTLRATASVRSSTETVDSGYRSFKSDPVPNVYHVGSGVVFAPATSANDS 300
QY 301 ELSSDALTDDSMSMTDSSVDGPPYRMGSKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
DB 301 ELSSDALTDDSMSMTDSSVDGIPPYRMGSKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
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DB 361 EMTPEVPAFAAELISRLKLELESRSLSRLEERLQOIREDDEKEGSELTLSNREGAPTQ 420
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DB 421 HPLALLPSGSYEDPQTILDDHLSRVLKTGPGCGSGRGGLTPKRNAGTBPGLALSARDGG 480
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DB 537 VRCCLPGGTDYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 596
QY 539 VHCFCGGSSEYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 598
DB 539 VHCFCGGSSEYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 598
QY 597 MSSAAGGPOLPGEGRSDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 656
DB 597 MSSAAGGPOLPGEGRSDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 656
QY 599 APGAGALQLPREEGDRSQDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 658
DB 599 APGAGALQLPREEGDRSQDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 658
QY 657 RHLLGCA-SGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEAACRRLAEVSKPKQKCCVA 715
DB 657 RHLLGCA-SGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEAACRRLAEVSKPKQKCCVA 715
QY 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVFFCGEIPYR 775
DB 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVFFCGEIPYR 775
QY 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
DB 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
QY 836 VERID 840
DB 836 VERID 840
QY 839 VERID 843
DB 839 VERID 843
RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
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; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116
Query Match          90.6%; Score 4027.5; DB 16; Length 843;
Best Local Similarity 89.7%; Pred. No. 1.1e-276;
Matches 758; Conservative 31; Mismatches 49; Indels 7; Gaps 3;
QY 1  MSSAVLVLTLLPPSSSFREDAPRPVPVGEGETPPCQPSVGKQVQSTKMPVSSNARNED 60
DB 1  MSSAMLVTLCLPDPSSSFREDAPRPVPVGEGETPPCQPGVGKQVTKPMSVSNTRNED 60
QY 61  GLGEPEGRASPDSPLTRWTKSLHSLLDGODGAYLFRFTFLEREKCYDVTDLDFWACNCFROM 120
DB 61  GLGEPEGRASPDSPLTRWTKSLHSLLDGODGAYLFRFTFLEREKCYDVTDLDFWACNCFROM 120
QY 121 NLKDTKTLRVAKAIYKRYIENNSVSKQLPKATKTYIRDGIIKKQIQSGVVFQAOQTEIOA 180
DB 121 NLKDTKTLRVAKAIYKRYIENNSIVSKQLPKATKTYIRDGIIKKQIQSDSIMFQAOQTEIOS 180
QY 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPLTNEEBEWTCADLK 240
DB 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPLTNEEBEWTCADPK 240
QY 241 CKLSPTVTVGLSSKTLRATASVRSSTETAEANGFRSFKSDPVPNVYHVGSGVVFAPATSANDS 300
DB 241 CKLSPTVTVGLSSKTLRATASVRSSTETVDSGYRSFKSDPVPNVYHVGSGVVFAPATSANDS 300
QY 301 ELSSDALTDDSMSMTDSSVDGPPYRMGSKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
DB 301 ELSSDALTDDSMSMTDSSVDGIPPYRMGSKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
QY 361 EMTPEVPAFAAELISRLKLELESRSLSRLEERLQOIREDDEKEGSEQALSSRDGAPVQ 420
DB 361 EMTPEVPAFAAELISRLKLELESRSLSRLEERLQOIREDDEKEGSELTLSNREGAPTQ 420
QY 421 HPLALLPSGSYEDPQTILDDHLSRVLKTGPGCGSGRGGLTPKRNAGTBPGLALSARDGG 480
DB 421 HPLALLPSGSYEDPQTILDDHLSRVLKTGPGCGSGRGGLTPKRNAGTBPGLALSARDGG 480
QY 481 TLLSTCGKLPVPA----ACPLGGKSFLLTKQTTKHVVHHYIHHAVPKTEEAEATOR 536
DB 481 TLLSTCGKLPVPA----ACPLGGKSFLLTKQTTKHVVHHYIHHAVPKTEEAEATOR 536
QY 479 SLLPPGGKLPVPAASPCACPLGGKGFVTKQTTKHVVHHYIHHAVPKTEEAEATOR 538
DB 479 SLLPPGGKLPVPAASPCACPLGGKGFVTKQTTKHVVHHYIHHAVPKTEEAEATOR 538
QY 537 VRCCLPGGTDYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 596
DB 537 VRCCLPGGTDYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 596
QY 539 VHCFCGGSSEYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 598
DB 539 VHCFCGGSSEYCYCKSHKAPKPEPLPGEQFCGSGRGGLTPKRNAGTBPGLALSARDGG 598
QY 597 MSSAAGGPOLPGEGRSDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 656
DB 597 MSSAAGGPOLPGEGRSDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 656
QY 599 APGAGALQLPREEGDRSQDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 658
DB 599 APGAGALQLPREEGDRSQDQVQWMLLESERQSKSPHSAQSIKSYPLESARAAPGERVS 658
QY 657 RHLLGCA-SGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEAACRRLAEVSKPKQKCCVA 715
DB 657 RHLLGCA-SGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEAACRRLAEVSKPKQKCCVA 715
QY 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVFFCGEIPYR 775
DB 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVFFCGEIPYR 775
QY 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
DB 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
QY 836 VERID 840
DB 836 VERID 840
QY 839 VERID 843
DB 839 VERID 843
RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
```

Patent No. US20010052137A1  
; GENERAL INFORMATION: Peter S.  
; APPLICANT: KLEIN, Peter S.  
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN  
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT  
; TITLE OF INVENTION: SIGNALING  
; FILE REFERENCE: 209596 0391/306U1  
; CURRENT APPLICATION NUMBER: US/09/798,831  
; PRIOR FILING DATE: 2001-03-01  
; PRIOR APPLICATION NUMBER: US 60/186,141  
; PRIOR FILING DATE: 2000-03-01  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 842  
; TYPE: PRT  
; ORGANISM: Xenopus laevis  
US-09-798-831-8

Query Match 37.2%; Score 1654.5; DB 9; Length 842;  
Best Local Similarity 42.5%; Pred. No. 2.8e-108;  
Matches 385; Conservative 125; Mismatches 246; Indels 149; Gaps 28;

Qy 12 DPSSSFEDAPRPVPVPEEGE--TPPCQPSVGKQVSTKMPV-----SSNARNEDGLG- 63  
Db 11 DLGSFTEDAPRPVPVPEEGELITDQRPSTYISLNDGINKNETATPRPDLGLY 70  
Qy 64 EPEGRASPDSPLTRWTKSLHSLLDQDQAYLFRFTFLEREKCVDTLDFWFAENGFRQNLK 123,  
Db 71 EPEGRASPTPYLKWAEHSLHLLDQDGIHLFRFTLQENCADLLDFWFAENGFRKLEPN 130  
Qy 124 DTXT---LRVAKAIYKRYI-ENNSVSKQLKPAKTYIRDIKQOIGSVMFDOAQTEIQ 179  
Db 131 DSKVEKRLKAKAIYKYVLDNSGIVSRQIKPATKSFKDCVLRQQLDPAFDOAQTEIQ 190  
Qy 180 AVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLGSLKVLGCVLPTLNEEEWTC- 236  
Db 191 SMEDNTYPTFLKSDIYLEYTTIGESPKYSDQSSGSGTGKSGVLYPLTNEDEEWRCD 250  
Qy 237 -----ADLKC---KLSTVTVGLSSKTLRATASVRSSTETAEANGFRSFRKSPVNPYHVS 287  
Db 251 QGGEHERERECIPSSLFQKQALDSSSHCAGSNRLSDGRE--FRPGTWREPVPYVNT 308  
Qy 288 GYVPATPATSANDSE---LSSDALTDSSMTDSSVDGVPYPRMGSKKOLQREHRSVKAN 344  
Db 309 GYAGAPVTSANDSEQQSSSDA---DTMSLTDSSVDGIPPYRL--RKHYREMOESANAN 363  
Qy 345 QGVSLPFPTRHLPKEMTPVEPAFAAEILSRLEKLESLRHSLEERLQOIREDEEK 404  
Db 364 GRGPLPHIPRTYHMPKDI-HVDPEKFAAEILSRLEGLVRDREAOKLEERLKVRAEB-- 420  
Qy 405 EGSEQALSSRDGAPVQHPLALLPSG-----SYBEDPQTILDDH 442  
Db 421 EGDGDVSGSV-LSHK---LPSGPPMHFNRSYSETGCVGMQIRDAHEENPESILDEH 476  
Qy 443 LSRVLKTPGQSPGVGRYSRSPRSDPHHQ-----HHHQOCHTLSTGKL 489  
Db 477 VQVMKTPGQSPGTRHSPKSPSPDGHLSKTLPLGSLGTMQTGHGKHSKSTAKVDSGNL 536  
Qy 490 PVAAACPLLGGKSLTKQTTKHVHHYTHHHAVPKTEEIABEAATORVRLCLPGGTDDYC 549  
Db 537 -----HHHKVHYTH--VHHGGVAPKEQIDGESTQRTQTFNFPNVEHSHN 578  
Qy 550 YSK-----CKSHKPAPELPCEQFCGSRGGTLPRKNAKGTBFLGALSARDGMSAAGGP 604  
Db 579 YATKSENAYESNGMAPNPMDSLAYS- KVSMLSKENAKKADLGKESA-----SHEMP 630  
Qy 605 QLPGEGRSQRQVWQMLESERQ-----SKSKPHSAQSIKSPLESARAPGERSVRHLL 661  
Db 631 VVP-EDSERHQILQWIEGEKEIIRHKSHNHSSSSAKKQPTLPLSLTERPGAVHPW 689  
Qy 662 GASGHSRSVARAHPPTQDPAEMPPLTPNTLAQL--EEACRRLAEVSK-----POKORCCVA 715

690 VSAQLNNVQPSHPFIQDPTMPNPAPNPLTQLVSKPGARLEEEKKAAMPOKQL--- 746  
Qy 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASSELVVTYFFCGEERIPYR 775  
Db 747 -----KPKQGNVSAPSPQCDNIVVAYFCGERIPYR 777  
Qy 776 RMLKAQSLTLGHFKBQLSKKNYRYFKKASDEFACGAVFEEIWDDETVLPMTEGRILGK 835  
Db 778 TWVGRVVTLGQPKELLTKKNYRYFKKVSDEFDCGVVFEVREDDMLPIYEEKIIG 837  
Qy 836 VERID 840  
Db 838 VEKID 842

RESULT 4  
US-10-786-720-35  
; Sequence 35, Application US/10786720  
; Publication No. US2004019181A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: O'Toole, Margot  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE  
; TITLE OF INVENTION: DISEASES  
; FILE REFERENCE: 031896-023000 (AM101331L)  
; CURRENT APPLICATION NUMBER: US/10/786,720  
; CURRENT FILING DATE: 2004-02-26  
; NUMBER OF SEQ ID NOS: 21135  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 35  
; LENGTH: 862  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-786-720-35

Query Match 36.4%; Score 1619.5; DB 16; Length 862;  
Best Local Similarity 41.9%; Pred. No. 8.9e-106;  
Matches 385; Conservative 127; Mismatches 251; Indels 155; Gaps 30;

Qy 12 DPSSSFEDAPRPVPVPEEGE--TPPCQPSVGKQVSTKMPV-----SN 54  
Db 11 DLGSFTEDAPRPVPVPEEGE-----LVSTDRPASYSFCSGKGVIGKETSTAT 60  
Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLLDQDQAYLFRFTFLEREKCVDTLDFWFA 113  
Db 61 PRSDLDLGYEPEGSASPTPYLKWAEHSLHLLDQDQISLFRFTFLQEGCADLLDFWFA 120  
Qy 114 CNGFRQNLKDT---KTLRVAKAIYKRYI-ENNSVSKQLKPAKTYIRDIKQOIGSV 169  
Db 121 CTGFRKLEPCDSNEEKELKLARAIYKYVLDNNGIVSRQTKPATKSPFKGKICMLDPA 180  
Qy 170 MFDQAQTEIQAVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLGSLKVLGCVLPT 227  
Db 181 MFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGESPKVCSQSSGSGTGKISGYLPT 240  
Qy 228 LNEEEWTC-----ADLKCLSPVTVGLSSKTLRATASVRSSTETAEANGFRSPR 276  
Db 241 LNEDEEWRCDQDMDDEDGRDAAPPCLRL-PQKLLETAAPRVSSRRYSEGREPRYGSWR- 298  
Qy 277 SDPVNPHYVSGVYFAPATPATSANDSE---LSSDALTDSSMTDSSVDGVPYPRMGSKKOL 333  
Db 299 -EPVNPYVNAVAGALAPATPATSANDSEQQSSSDA---DTLSLTDSSVDGIPPYRI--RKQH 352  
Qy 334 QREHRSVKANQVSLPHFPTRHLPKEMTPVEPAFAAEILSRLEKLESLRHSLEERLQOIREDEEK 393  
Db 353 RREMQESQVQNGRVPLPHIPRTYRVPKEVR-VEPKFAEELIHLRLAEOVTRTAEKEELE 411  
Qy 394 RLQOIREDEEKEGSEQALSSRDG-----APVOH--PLALLPSG-----SYBEDPQT 438  
Db 412 RLKVRMEDEGEDGDS--SGPPGCHKLPPAPAWHFPFRCDVMGACGLRDAHEENPESI 470  
Qy 439 LDDHLRLVLTGPGQSPGVGRYSRSPRSPDHHHHQHQQCHTLLSTGGLPPVAAACPLL 498

Db 471 LDEHVQVLTPTGQSPG-----PGRSPDSGVH-----AKMPVALGAAS 511  
Qy 499 GGSFELTKQTK-----HVHHVYIHHAVPTKKEIEAEATQVRCLCPGGTDYY 548  
Db 512 GHGKHPVKSGAKLDAAGLHHRHVVHHV--HHSTARPKQVEAEATRAQSSPAWGLEPH 569  
Qy 549 CYSK-----CKSHPKAPEPLPGQFCGSRGCTLPKRNAKTEPGLALSARDGGMSSNAGG 603  
Db 570 SHGARSGYSESVAAPNASDGLAHSG-KVGVAACKRNAKKAESGASST-----617  
Qy 604 POLPG--EEDGRSDQVQWMLLESERQ---SKSPHSAQSIKSYPLSARAAAPGERVSRH 658  
Db 618 -EVPGASEDAEKQKQINQWIIIEGEKEISRHRTTGHSGSGTRKQPHENSHP-----LSLE 671  
Qy 659 HLGASHSHSVARAHFTQDPAWPLTPPNTLAQLEAEACRLAEVSK-----PQQRCC 713  
Db 672 HPWAGPOLRTSVQPSHLFIQDTPWPHAPNPLTLQLEEARRLLEEBEKRASRAPSKQRYV 731  
Qy 714 VASQQRDNHSAQAQASPFANP-----SLAPEDHKEPKKLASVHALQASELV 762  
Db 732 QEVNRR-----GRACVRPACAPVLHVPAVSDMSELSETETRSQRKVGGSQAQPCDSIV 784  
Qy 763 VTYFFCEEIPIYRMLKAQSLTLGHFKQSLKGNRYIYFKKASDSEFACGAVFEEIWDE 822  
Db 785 VAYFCGEPTPYTLVGRAVTLGQFKELLTKGSYRYFKKYSDEDFDCGVFEVREDE 844  
Qy 823 TVLPMYEGRLGKVERID 840  
Db 845 AVLVPFEEKIIGKVEKD 862

RESULT 5

US-10-092-900A-270  
; Sequence 270, Application US/10092900A  
; Publication No. US20040043382A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Taupier Jr., Raymond J.  
; APPLICANT: Pena, Carol E.A.  
; APPLICANT: Li, Li  
; APPLICANT: Zerhusen, Bryan D.  
; APPLICANT: Gusev, Vladimir Y.  
; APPLICANT: Ji, Weizhen  
; APPLICANT: Gorman, Linda  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Gangolli, Esha A.  
; APPLICANT: Vernet, Corine A.M.  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Fernandes, Elma R.  
; APPLICANT: Casman, Stacie J.  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Liu, Yi  
; APPLICANT: Anderson, David W.  
; APPLICANT: Spaderna, Steven K.  
; APPLICANT: Catterton, Elina  
; APPLICANT: Leite, Mario W.  
; APPLICANT: Zhong, Haihong  
; APPLICANT: Alsobrook, John P.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-290C  
; CURRENT APPLICATION NUMBER: US/10/092, 900A  
; CURRENT FILING DATE: 2002-03-07  
; PRIOR APPLICATION NUMBER: USSN 60/274,322

; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USSN 60/283,675  
; PRIOR FILING DATE: 2001-04-13  
; PRIOR APPLICATION NUMBER: USSN 60/338,092  
; PRIOR FILING DATE: 2001-12-03  
; PRIOR APPLICATION NUMBER: USSN 60/274,281  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USSN 60/274,191  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USSN 60/325,681  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: USSN 60/304,354  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: USSN 60/279,995  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: USSN 60/294,899  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: USSN 60/287,424  
; PRIOR FILING DATE: 2001-04-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 768  
; SEQ ID NO 270  
; LENGTH: 912  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-092-900A-270  
  
Query Match 36.4%; Score 1617; DB 15; Length 912;  
Best Local Similarity 41.4%; Pred. No. 1.5e-105;  
Matches 384; Conservative 125; Mismatches 246; Indels 172; Gaps 29;  
  
Qy 12 DPSSSFEDAPPPVPGEGETPPCQPSVGKQSTKMPVSV-----SN 54  
Db 60 DLGASFTEDAPPPVPGEGE-----LVSTDFRPSYSFCSGKGVGKGETSTAT 109  
Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLLDGQDQAYLFRFTFLEREKCVDTLDFWFA 113  
Db 110 PRSDLDLGYEPEGSASPTPYLKWAESLHSLDDQDGLSFRFTFLKQGCADLLDFWFA 169  
Qy 114 CNGFROMNLKDT---KTLRAKAIYKRYI-EENNVSVKQKPKATYIIRDGKIKQIGSV 169  
Db 170 CTGFRKLEPCDSNEEKRLARAIYKTYLDNNGIVSRQTKPATKSFIRGCMKQLIDPA 229  
Qy 170 MFDQAOTEIQAAMENAYQVELTSDIYLVSVSGGENTAVMS--NGGLSLKVLGCLYPT 227  
Db 230 MFDQAOTEIQAAMENAYQVELTSDIYLVSVSGGENTAVMS--NGGLSLKVLGCLYPT 289  
Qy 228 LNEEEEWTC-----ADLKCKLSPTVVGLSKTLRATASVRSTETAENGFRSFKR 276  
Db 290 LNEDEEMKCDQDDEDDGRDAAPPGRLL-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 347  
Qy 277 SDPVNPYHVGSGYVAFAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYRMGSKQL 333  
Db 348 -EPVNPYYNAGYALAPATSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 401  
Qy 334 QREMHRSVKANGOVSLPHEPRTHRPLPKEMTPVEPAFAAEELSLRLEKLELESRLSLEE 393  
Db 402 RREMQUESVQNGKRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVORTREAEKLEE 460  
Qy 394 RLQQIREDEEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429  
Db 461 RLKRVMEEGE-----DGDPSGPPGCHKLPPAPAWHHFPPLRCWTWACAGLRD 511  
Qy 430 SYEEDPQTLLDHLNRVLTGPGQSPGVGRYSPRSRSPDHHHQQHHHQQHLLSTGGKL 489  
Db 512 AHEENDESILDEHVQVRLTPTGRQSPG-----PGRSPDSGVH-----AKM 552  
Qy 490 PPVAACTPLGGKSLTKQTK-----HVHHVYIHHAVPTKKEIEAEATQVRCL 539  
Db 553 PVALGAASGHGKHPVKSGAKLDAAGLHHRHVVHHV--HHSTARPKQVEAEATRAQSS 610  
Qy 540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGQFCGSRGCTLPKRNAKTEPGLALSARD 594

Db 611 SPWGLEPHSHGARSRCYSESUGAAPNASDGLAHSG-KVGVACKRNAKKAESKASST-- 667  
Qy 595 GGMSSAAGGQPLPG--EEGRDSQDVQWQWMLSEBQ---SKSKPHSAQSTKSYPLESARA 649  
Db 668 -----EVPQASDAEKQKIMQWITTEGEKEISRHRRTGHSGSGTRKPKQPHENSRRP 717  
Qy 650 APCRVSRRHLLGASGHSRVARAHPPTQDPAMPPLTPPNTLAQLEACRRRLAEVSK-- 706  
Db 718 -----LSLEHPWAGPQLRTSVQSHLFIQDPTWPPHAPNPLTLQLEARRRLEEEBKAS 772  
Qy 707 --PQKORCCVASOQRDRNHSAAQAGASPPFANP-----SLAPEDHKPKKLASV 753  
Db 773 RPSKQRYVQEMR-----GRACVRPACAPVLHVVPVAVSWMELSETETRSQRKVG 825  
Qy 754 HALQASLELVVYFCGEEIPIYRMLKAQSLTLGHFKQOLSKGNRYYYFKKASDEPACGA 813  
Db 826 SAQPCDSIVVAVYFCGEPPIPYRTLVRGRAVTLGQFKELLTKGSRYYYFKKVSDEPDCGV 885  
Qy 814 VFEIWDDETLPVMEGRILGKVERID 840  
Db 886 VFBEVREDAVLPVFEKIIGKVEKD 912

## RESULT 6

US-10-264-049-2846  
; Sequence 2846, Application US/10264049  
; Publication No. US20040005579A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: P133P1  
; CURRENT APPLICATION NUMBER: US/10/264,049  
; PRIOR FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/18569  
; PRIOR FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: US 60/209,467  
; PRIOR FILING DATE: 2000-06-07  
; NUMBER OF SEQ ID NOS: 4360  
; SOFTWARE: Patent in Ver. 3.1  
; SEQ ID NO 2846  
; LENGTH: 347  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (204)  
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (240)  
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids  
US-10-264-049-2846

Query Match 36.3%; Score 1615.5; DB 15; Length 347;  
Best Local Similarity 86.5%; Pred. No. 4.7e-106;  
Matches 300; Conservative 13; Mismatches 33; Indels 1; Gaps 1;  
Qy 495 CPLLGKSLFKQTKTHVHHYIHHVAVPKTKKEIEAEATQVRCLCPGGTDYCYSKCK 554  
Db 1 CPLLGKGFVTKQTKVHHYIHHVAVPKTKKEIEAEATQVRCLCPGGTDYCYSKCK 60  
Qy 555 SHKAPLEPQEGFCGSGRTLPKRNAGTSPGLALSADGMSAAGGPPOLPEEGDGRS 614  
Db 61 SHKAPETMPSEQFCGSGRTLPKRNAGTSPGLALSADGMSAAGGPPOLPEEGDGRS 120  
Qy 615 QDVQWMLSESRQSKPHSAQSTKSYPLESARAAPGERSRHLLGA-SGHSRSVARA 673  
Db 121 QDVQWMLSESRQSKPHSAQSTKSYPLESARAAPGERSRHLLGA-SGHSRSVARA 180  
Qy 674 HPFTQDPAMPPLTPNTLAQLEAACRRRLAEVSKPKQKCCVASQQRDRNHSAAQAGASP 733  
Db 181 HLFTQDPAMPPLTPNTLAQLEAACRRRLAEVSKPKQKCCVASQQRDRNHSAAQAGASP 240

Qy 734 FANPSLAPDHKEPKKLAHVHALQASELVVYFFCGEEIPIYRMLKAQSLTLGHFKQOLS 793  
Db 241 FSNPSLAPDHKEPKKLAGVHALQASELVVYFFCGEEIPIYRMLKAQSLTLGHFKQOLS 300  
Qy 794 KKGNYRYYPKASDEPACGAVFEEIWDDETLPVMEGRILGKVERID 840  
Db 301 KKGNYRYYPKASDEPACGAVFEEIWEDETLPVMEGRILGKVERID 347  
RESULT 7  
US-10-786-720-36  
; Sequence 36, Application US/10786720  
; Publication No. US20040191818A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: O'Toole, Margot  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE  
; FILE REFERENCE: 031896-023000 (AMI101331L)  
; CURRENT APPLICATION NUMBER: US/10/786,720  
; CURRENT FILING DATE: 2004-02-26  
; NUMBER OF SEQ ID NOS: 21135  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 36  
; LENGTH: 826  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-786-720-36

Query Match 36.3%; Score 1612.5; DB 16; Length 826;  
Best Local Similarity 42.1%; Pred. No. 2.6e-105;  
Matches 380; Conservative 124; Mismatches 239; Indels 159; Gaps 29;  
Qy 12 DPSSFPEDAPRPVPGEGETPPCQPSGVKGVSTKMPVVS-----SN 54  
Db 11 DLGASFTEDAPRPVPGEGE-----LVSTDPASYSFCSCGKGVIGKETSTAT 60  
Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLGDDQAGVLFRTFLEREKCVDTLDFWFA 113  
Db 61 PRSDLDLGYEPEGSASPTPYLKWAESLHSLDDQDGLSLFRTFLQEGCADLDFWFA 120  
Qy 114 CNGFRQNLKDT---KTLRVAKAIYKRYI-ENNSVSVSKLKPATKTVIRGDIKKQIGSV 169  
Db 121 CTGFRKLEPCDSNEEKELKLARIYKYILDNNGIVSRQTKPATKSPFKGCKIMQLDPA 180  
Qy 170 MPDQAQTEIQAVMEENAYQVFLSDIYLEVYRSGENTAYMS--NGGLGSLKVLGVLPT 227  
Db 181 MPDQAQTEIQATMEENTYPSFLKSDIYLETYRTGSESPKVCSDQSSGSGTGKISGVLPT 240  
Qy 228 LNEEEWTC-----ADLKCLSPVTVGLSSKTLRATASVRSTETAENGFRSPKR 276  
Db 241 LNEDEEWKCDQDDEDDGRDAAPPGRU-PKLLLETAAPRVSSRRYSEGEFRYGSWR- 298  
Qy 277 SDPVNYPVHVGSGVYFAPATSandSE---LSSDALTDSDMSMTSSVDGVPPYRNGSKQL 333  
Db 299 -EPVNPVYVAGYALATSandSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 352  
Qy 334 QREHRSVKANGQVSLPHFPRTHRLPKEMTPVEPAFAAEALISLEKLELESRSLEE 393  
Db 353 RREMQESQVQNGRVPLPHIPRTYRVKPEVR-VEPQKFAEELIHLREAVQRTREAEKLEE 411  
Qy 394 RLQOIRDEEKEGSEQALSRRDG-----APVOH--PLALLPSG-----SYEEDPOTI 438  
Db 412 RLKVRMEEGEDGDPS-SGPPGCHKLPPAPAMHHPPPRCVDMGCGAGLRDAHENPESI 470  
Qy 439 LDDHLRVLKTPGQSPGVGRYSRSPDHQHHHQQCHTLLSTGKLPVPAACPLL 498  
Db 471 LDEHVQVRLTPGQSPG-----PGHSPDSGHV-----AKMPVALGGAAS 511  
Qy 499 GKGSLFKQTKT-----HVHHYIHHVAVPKTKKEIEAEATQVRCLCPGGTDYCY 548  
Db 512 GHGKVPKSGAKLDAAGLHHHRHHVHV--HHSTARPKQEVAEATRAQSSFAWGLEPH 569

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QY 549 CYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKRNAKTERPGLALSARDGMSAAGG 603
Db 570 SHGARGYSEYSGAAPNASDGLAHSG-KVGVAACKNAKKAESGKSAST----- 617
QY 604 POLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIRKSYPLESARAAPGERVSRH 658
Db 618 -EVPGASEDAEKQKTMQWIIIEGEKISRHRRTGCHSSGSTRKPKPHENSRRP-----LSLE 671
QY 659 HLGASGHSRVARAHFTODPAMPPLTPPNTLAQLEECRRLAEVSKPKQRCQCVASQ 718
Db 672 HPWAGPOLRTSVQSHLFIQDTPMPHPAPNPLTQLEEARRLLEE---BEKRASRAPSKQ 728
QY 719 RDRNHSAAAGAGASPANPSLAPEDHKPKKLASVIALQASELVVTFYFCGGEIPIYRML 778
Db 729 RTRSRQKVGGSQAP-----CDSIVVAYYFCGGEIPIYRTLV 764
QY 779 KAQSLTLGHFKEQLSKGNVRYFKKASDFACGAVFEEIWDDETLPVMEGRILGKVER 838
Db 765 RGRAVTLGQPKELLTKGSRYYFKKVSDFDCGVVFEEVREDEAVLPVPEEKLIKVEK 824
QY 839 ID 840
Db 825 VD 826

RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374, 979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match 36.1%; Score 1605; DB 15; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

QY 12 DPSSSFREDAPRPVFGEEGETPPQFQSVGKQSTKPMFVS-----LVSTDPRPASYSFCGKGVIGKETSTAT 97
Db 48 DLGASTEDAPRPVFGEEGE-----LVSTDPRPASYSFCGKGVIGKETSTAT 97
QY 55 ARNEOGLG-EPGRASPDSPLTRWTKSLHSLLDQDGAVLFTFLEREKCVDTLDFWFA 113
Db 98 PRSDLDLGYEPGSGASPTPYLKWAEBSLHSLLDQDGLSLFTFLKQEGCADLLDFWFA 157
QY 114 CNGFROWNLKDT---KTLRAKAIYKRYI-ENNSVVSQKLPKATKYIRDGIKKQOIGSV 169
Db 158 CTGFRKLEPCDSNEEKKLARAIYKRYILDNNGIVSRQTKPATKFIKGCIMKQLIDPA 217
QY 170 MFDQAQTEIOAVNEENAYOVFLTSDIYLEYVRSGGENTAYMS--NGGLGSLKVLGCLYPT 227
Db 218 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTGSSEPKVCSQSSSGSGTGKGISGLYPT 277
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QY 228 LNEEBEWTCT-----ADLKCKLSPTVGLSSKTLRATASVRSTETAENGPRFSFKR 276
Db 278 LNEDEWKCQDMDEDDGRDAAPGRL-PQKILLETAAPRVSSRRYSRGRFRYGSWR- 335
QY 277 SDVPNYPHYGSGYVAPATSANDSE---LSSDALTDDSMSTDSYVDGVPYPMGSKQL 333
Db 336 -EPVNPYYNAGYALAPATSANDSEQOQLSSDA---DTLSLTDSSVDGPIPYRI--RKQH 389
QY 334 QREMRHSVKANQCVSLPHPRHRLPKEMTPVEPAFAAELISRLEKLELESRHSLEE 393
Db 390 RREMOESAQVNGRVPLPHIPRTYRVPEKVR-VEPOKFAEELIHRLEAVQRTREAEKLEE 448
QY 394 RLQOITREDEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RUKRVMESEGE-----DQDSSGGPGCHKLPPAPAWHHFPPLRCWTWACAGLRD 499
QY 430 SYEEDPQTTLDHLRVLKTPGQSPGVGRYSRPSRSDPHHHQHQQHCHTLLSTGGKL 489
Db 500 AHEENPESILDEHVQRVLTTCRQSPG-----PGHRSPPDSGHV-----AKM 540
QY 490 PPVAACTLLGKGSFLTKQTTK-----HVHHHYIHHAVPKTKIEIEABATORVRC 539
Db 541 PVALGGAASGHGKHPKSGAKLDAAGLHHRHVHHV--HHSTARPKQEVEAEATRAQS 598
QY 540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKRNAKTEPGLALSARD 594
Db 599 SFAMGLEPHSHGARGSYSEYGAAPNASDGLAHSG-KVGVAACKNAKKAESGKSAST-- 655
QY 595 GGMSSAAGGPOLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIRKSYPLESARA 649
Db 656 -----EVPGASEDAEKQKTMQWIIIEGEKISRHRRTGCHSSGSTRKPKPHENSRRP 705
QY 650 APCERVSRHLLGASGHSRVARAHFTODPAMPPLTPPNTLAQLEECRRLAEVSK--- 706
Db 706 -----LSLEHPWAGPOLRTSVQSHLFIQDTPMPHPAPNPLTQLEEARRLLEEKRAS 760
QY 707 --PQQRCCVQSQQRDNHSAAGAGASPFANP-----SLAPBDHKPEPKKLASV 753
Db 761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVPAVSDMELSETETRSQRKVG 813
QY 754 HALQASELVVTVYFFCGEEIPIYRMRMLKAQSLTLGHFKEQLSKGNVRYYPFKKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGGEIPIYRTLVRGRAVTLGQPKELLTKGSRYYFKKVSDEFDCGV 873
QY 814 VFEETWDDTETVLPMEYGRILGKVERID 840
Db 874 VFEEVREDEAVLPVFEKIIGKVKVD 900

RESULT 9
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
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; SOFTWARE: Fast-SEQ for Windows Version 4.0		874 VFEEVREDAVLFPVEEKIIGKVEKYD 900	
; SEQ ID NO 91			
; LENGTH: 900			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-10-182-936A-91			
Query Match			
Best Local Similarity			
Matches			
36.1%; Score 1605; DB 15; Length 900;			
41.2%; Pred. No. 1e-104;			
Conservative 125; Mismatches 248; Indels 172; Gaps 29;			
Qy	12 DPSSSPREDAPRPVPVEEGETPPCQPSVGKVGSTKMPVVS-----LVSTDRPASYSFCSGKGVGKGETSTAT	SN 54	
Db	48 DLGASFTEDAPRPVPVEEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT	97	
Qy	55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLGDDQGAYLFRFTFLEREKCVDTLDFWFA 113		
Db	98 PRSDLDLGYEPEGASPTPPYLKWAESLSLDDQDGISLFRFTFLKQEGCADLDFWFA 157		
Qy	114 CNFRQNLKDT---KTLRVAKAIYKXI-ENNSVSVSKLKPKATKTVIRDGKIKQIGSV 169		
Db	158 CTGFRKLEPCDSNEEKKLARIYKIILDNNGIVSRQTKPATKSFIKGCIKQLIDPA 217		
Qy	170 MFDQAQTEIOAVMEENAYQVFLTSDIYLVRSRGENTAYMS--NGGLGSLKVLGCGYLP 227		
Db	218 MFDQAQTEIOATMEENTYPSFLKSDIYLVTRTGSSEPKVCSQDSGSGTGKIGSYLP 277		
Qy	228 LNEEEETWC-----ADLKCKLSPVTVGSLSKTLRATASVRSRTAENGFRSPKR 276		
Db	278 LNEDEEWKCDQDMDDEDDGRDAAPPGR-L-PQKLLLETAAPRVSSRRYSEGREFRYGSWR- 335		
Qy	277 SDPNVPHVSGYVFAPATANDSE---LSSDALTDSSMTDSSVDGVPYRMGSKQL 333		
Db	336 -EPVNPYYNAGYALAPATANDSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 389		
Qy	334 QREHRSVKANGQVSLPHFRTHRLPKEMTPVEPAFAAEILISLEKLELESRHSL 393		
Db	390 RREMQESAQVNGRVPLPHIPTYRVKPEVR-VEPQKFAEELIHLREAVQRTREAEKLEE 448		
Qy	394 RLQOIREDEEKEGSEQALSRRDGPVQ-----HPLALLPS-----G 429		
Db	449 RLKVRMEEGE-----DGDPSGPPGCHKLPPAPAWHHFPPRLCWTWACAGLRD 499		
Qy	430 SYEDPQTILDDHLSRVLTKPGCSPGVRSRSPDHHHHQHQQCHTLLSTGGKL 489		
Db	500 AHEENPESILDEHVQVRLTTRGQSPG-----PGRSPDSGHV-----AKM 540		
Qy	490 PPVAAACPLLGKGSFLTKQTTK-----HVHHHYIHHHVAVPKTEEIEAEATQVRVC 539		
; Query Match		36.1%; Score 1605; DB 16; Length 900;	
; Best Local Similarity		41.2%; Pred. No. 1e-104;	
; Matches		382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;	
Qy	12 DPSSSPREDAPRPVPVEEGETPPCQPSVGKVGSTKMPVVS-----LVSTDRPASYSFCSGKGVGKGETSTAT	SN 54	
Db	48 DLGASFTEDAPRPVPVEEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT	97	
Qy	55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLGDDQGAYLFRFTFLEREKCVDTLDFWFA 113		
Db	98 PRSDLDLGYEPEGASPTPPYLKWAESLSLDDQDGISLFRFTFLKQEGCADLDFWFA 157		
Qy	114 CNFRQNLKDT---KTLRVAKAIYKXI-ENNSVSVSKLKPKATKTVIRDGKIKQIGSV 169		
Db	158 CTGFRKLEPCDSNEEKKLARIYKIILDNNGIVSRQTKPATKSFIKGCIKQLIDPA 217		
Qy	170 MFDQAQTEIOAVMEENAYQVFLTSDIYLVRSRGENTAYMS--NGGLGSLKVLGCGYLP 227		
Db	218 MFDQAQTEIOATMEENTYPSFLKSDIYLVTRTGSSEPKVCSQDSGSGTGKIGSYLP 277		
Qy	228 LNEEEETWC-----ADLKCKLSPVTVGSLSKTLRATASVRSRTAENGFRSPKR 276		
Db	278 LNEDEEWKCDQDMDDEDDGRDAAPPGR-L-PQKLLLETAAPRVSSRRYSEGREFRYGSWR- 335		
Qy	277 SDPNVPHVSGYVFAPATANDSE---LSSDALTDSSMTDSSVDGVPYRMGSKQL 333		
Db	336 -EPVNPYYNAGYALAPATANDSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 389		
Qy	334 QREHRSVKANGQVSLPHFRTHRLPKEMTPVEPAFAAEILISLEKLELESRHSL 393		
Db	390 RREMQESAQVNGRVPLPHIPTYRVKPEVR-VEPQKFAEELIHLREAVQRTREAEKLEE 448		
Qy	394 RLQOIREDEEKEGSEQALSRRDGPVQ-----HPLALLPS-----G 429		
Db	449 RLKVRMEEGE-----DGDPSGPPGCHKLPPAPAWHHFPPRLCWTWACAGLRD 499		
Qy	430 SYEDPQTILDDHLSRVLTKPGCSPGVRSRSPDHHHHQHQQCHTLLSTGGKL 489		
Db	500 AHEENPESILDEHVQVRLTTRGQSPG-----PGRSPDSGHV-----AKM 540		
Qy	490 PPVAAACPLLGKGSFLTKQTTK-----HVHHHYIHHHVAVPKTEEIEAEATQVRVC 539		
Db	541 FVALGGAASGHGKHPKSGAKLDAAGLHHHRHVHHV--HHSTARPKQVQEAETRAQS 598		
Qy	540 LCPGTDYCYK-----CKSHKPAPEPLPGEQFCGSRGGTLPRKNAKTGTPGALASRD 594		
Db	599 SFANGLEPHSHGARSRGVSESVGAAPNADGLAHSG-KVGVACKENAKAESGKSAST-- 655		
Qy	595 GGMSSAAGPOLPG--EGDRSQDVQWMLSEHQ---SKKPHSAQIRKSYPLESARA 649		
Db	656 -----EVPGASEDAENKQIMOWIEGEKEISRHRTGHGSGSTRKXPQPHENSRP 705		
Qy	650 APGERVSRHLLGASHRSVARAHPFTQDPAMPPLTPNTLAOLEACRRLAEVSK--- 706		
Db	706 -----LSLEHPWAGQLRYSVQPSHLFTQDPTMPHPAPNPLTLQEAARRLEBEKAS 760		
Qy	707 -POKORCCVASQQRDRNHSAGAGAGAPFANP-----SLAPEDHKEPKKLASV 753		
Db	761 RAPSQRVQVEMRR-----GRACVTPACAPVLHVVPVAVSDMELSETETRSQRKVG 813		
Qy	754 HALQASELVVYFFCGEPIPYRMLKAQSLTLGHFKPEQLSKGNVYFYFKKASDEFACGA 813		
Db	814 SAQPCDSIVWAYFYCGEPIPYRTLVRGRAVTLGQFKELLTKKGSYRYFYFKVSEDFCGV 873		
Qy	814 VFEEIWDDETLPMPYEGHILGKVERID 840		



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Db      541 PVALGGAASGCHKVPSGAKLDAAGLHHRHVHHV--HHSTARPKQVEAEATRAQS 598
Qy      540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGEFCGSRGGLTPKRNAGKTEPGALASRD 594
Db      599 SFANGLEPHSHGARSRGYSEVGAAPNASDGLAHS-GKGVACKNAKKAESGKSAST-- 655
Qy      595 GGMSSAAGGQLPG--REGDRSDVQWMLSESRQ---SKSKPHSAQSIRKSYPLESARA 649
Db      656 -----EVPGASEDAEKQIMQWIIIEGEKEISRHRRTGHSGSGTRKPOPHENS RP 705
Qy      650 AGERVSRHLLGASGHSRVARAHPFTQDPAMPPLTPNNTLAQLBEACRRLAEVSK--- 706
Db      706 -----LSLEHPWAGPQLRTSVQSHLFIQDTPMPHPAPNPLTLQLEBEARRLEEBEKRAS 760
Qy      707 --PQQRCCVASQORDNRNHSAAQAGASPANP-----SLAPEDHKPEPKKLAV 753
Db      761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQKVG 813
Qy      754 HALQASELVVYFFCGEEIPYRMLKAQSLTLGHFKQLSKKNRYRYPKKASDEFACGA 813
Db      814 SAQPCDSIVWAYVYFCGEPIPYRTLVRGRAVTLGQFKELLTKGYSYRYFKVSDPEFCGV 873
Qy      814 VFEEIWDDETLPMEYGRILGKVERID 840
Db      874 VFEEVREDEAVLPVFEKIIGKVEKD 900

RESULT 11
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680, 287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      36.1%; Score 1605; DB 16; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy      12 DPSSSFREDAPRPVPGEEGETPPCPSGVKGVOSTKMPVMS-----SN 54
Db      48 DLGASFTEDAPRPVPGEEGE-----LVSTDPDASVFCSGKGVGKIGKSTAT 97
Qy      55 ARNEEDGLG-EPGRASPDSPLTRWYKSLHSLIGDODGAYLFTFLEREKCVDTLDFWEA 113
Db      98 PRSDLDLGYEPGGSASPTPYLKWAESLHSLDDQDGLSFLFTFLQECADLLDFWEA 157
Qy      114 CNGFROWNLKDT---KTLRVAKAIYKRYI--ENNSVSVSKQLPKATKYIRDGKQKQIGSV 169
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Db      158 CTGFRKLEPCDSNEEKRLKLARAIYKRYITLDNNGIVSRQTKPATKSFIKGCIKMLQIDPA 217
Qy      170 MFDQATQTELOAVMEENAYQVFLTSDIYLEYVPSGENTAYMS--NGGLGSLKVLGCLPT 227
Db      218 MFDQATQTELOAVMEENAYQVFLTSDIYLEYVPSGENTAYMS--NGGLGSLKVLGCLPT 277
Qy      228 LNEEESEWTC-----ADLKCKLSPVTVVGLSSKTLRATASVSRSTETAENGFRSFKR 276
Db      278 LNEDEWKCDQDDEDDGRDAAPPGL-PQKLLLETAAPRVSSRRYSEGRFYGSWR- 335
Qy      277 SDVPNYPYHVGSGYVAPATSANDSE---LSSDALTDDSMSTDDSSVDGVPYRMGSKQL 333
Db      336 -EPVNPYYNAGYALAPALATSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 389
Qy      334 QREMHRSVKANQVSLPHFPTRHLPKEMTPVEPAFAAEILSRLEKLELESRHSLEE 393
Db      390 REEMQESAQVNGRVLPHIPRTYRVPKEVR-VEPOKFAEBELHRLAEVQRTREAEKELEE 448
Qy      394 RLQOIREDDEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db      449 RLKRVNMEEEG-----DGDSSGPPGCHKLPPAPAMHHPPLRCWTWACAGLRD 499
Qy      430 SYEEDPQTILDDHLSRLVLTGCGSPGVGRYSPRSRSPDHQHQQHQQOCHTLTSGGKL 489
Db      500 AHEENPESILDEHVQVRLTTRGQSPG-----PCHRSPPDSGHV-----AKM 540
Qy      490 PPVACPLLLGKSKFLTKQTTK-----HVHHYIHHHVAVPKTEIEAEATQVRVC 539
Db      541 PVALGGAASGCHKVPSGAKLDAAGLHHRHVHHV--HHSTARPKQVEAEATRAQS 598
Qy      540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGEFCGSRGGLTPKRNAGKTEPGALASRD 594
Db      599 SFANGLEPHSHGARSRGYSEVGAAPNASDGLAHS-GKGVACKNAKKAESGKSAST-- 655
Qy      595 GGMSSAAGGQLPG--REGDRSDVQWMLSESRQ---SKSKPHSAQSIRKSYPLESARA 649
Db      656 -----EVPGASEDAEKQIMQWIIIEGEKEISRHRRTGHSGSGTRKPOPHENS RP 705
Qy      650 AGERVSRHLLGASGHSRVARAHPFTQDPAMPPLTPNNTLAQLBEACRRLAEVSK--- 706
Db      706 -----LSLEHPWAGPQLRTSVQSHLFIQDTPMPHPAPNPLTLQLEBEARRLEEBEKRAS 760
Qy      707 --PQQRCCVASQORDNRNHSAAQAGASPANP-----SLAPEDHKPEPKKLAV 753
Db      761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQKVG 813
Qy      754 HALQASELVVYFFCGEEIPYRMLKAQSLTLGHFKQLSKKNRYRYPKKASDEFACGA 813
Db      814 SAQPCDSIVWAYVYFCGEPIPYRTLVRGRAVTLGQFKELLTKGYSYRYFKVSDPEFCGV 873
Qy      814 VFEEIWDDETLPMEYGRILGKVERID 840
Db      874 VFEEVREDEAVLPVFEKIIGKVEKD 900

RESULT 12
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
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; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PR1
; ORGANISM: Homo sapiens
; US-10-477-173-670

Query Match      36.1%; Score 1605; DB 17; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy 12 DPSSSFEDAPRPVPGEGETPPCQPSVGKQSTKMPVS-----SN 54
Db 48 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT 97
Qy 55 ARNEDGLG-EPEGRASPSPLRTWKYSLHLLGDDQAGYLFRTFLEREKCVDTLDFWFA 113
Db 98 PRSDLDLGYEPEGASPTPYLKWAESLHLLDDQGISLFRFLKQEGCADLLDFWFA 157
Qy 114 CNFRQWMLKDT---KTLRVAKAIYKRYI-ENNSVWSKQLKPKATKYIRDIGIKQOIGSV 169
Db 158 CTGFRKLEPCDSNEEKRLKARAIYKYILDNNGIVSRQTKPATKSFKGCIMQLIDPA 217
Qy 170 MFDQAQTEIOAVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLGSLKVLGCLYPT 227
Db 218 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTGESPKVCSQSSSGTGKIGSYLPT 277
Qy 228 LNEEEETWC-----ADLKCLSPYTVVGLSSKTLRATASVRSTETAEANGFRSPKR 276
Db 278 LNEDEEWKCDQDMDDEDGRDAAPPGLR-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 335
Qy 277 SDPNVPHVGGYVFPATASANDSE---LSSDALTDDSMSTDSVDGVPPYRMGSKQL 333
Db 336 -EPVNPYVYVAGYALAPATASANDSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 389
Qy 334 QREMHRSVKANGVSLPHFTHRLPKEMTPVEPAAPAEELISLEKLESLERSHLEE 393
Db 390 REMQESAQVNGRVPPLPHIPTYRVKERV-VEPOKFAEELIHLRLEAVQRTAEAEKLEE 448
Qy 394 RLQOIREDDEEKEGSQLSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRVMEEGE-----DGDPSGPPGPGCHKLPAPAWHHPPRLCWTWACAGLRD 499
Qy 430 SYEEDPQTLDDHLSRVLTKPGCSGPGVGRYSRPSRSPDHHHQHQQCHTLLSTGKL 489
Db 500 AHEENPESILDEHVQRLRTTGRQSPG-----PGRHSPDSGHV-----AKM 540
Qy 490 PPVAAACPLLGGKSLTKQTK-----HVHHYIHHAVPKTKEIEAEATQVRVC 539
Db 541 PVALGGAASGHGKVPKSGAKLDAAGLHHHRHHV--HHSTARPKQEVAEATRAQS 598
Qy 540 LCPGTDVYCYSK-----CKSHKPAPELPQFCGSRGGTLPKRNAKGTPEPLALSARD 594
Db 599 SFWGLEPHSHGARGSESVGAAPNASDGLAHSG-KVGACKENAKKAEBSKASST-- 655
Qy 595 GGMSSAAGGPOLPG--BEGDRSQDVWQWMLSERO---SKKPHSAQSIKSYPLESARA 649
Db 656 -----EVPGASEDAEKQKIMQWIIIEGEKEISRHRRTGHGSSGTRKRPQPHENSRP 705
Qy 650 APERVSRHLLGASHGSRVARHPFTQDPAMPPLTPNTLAQLEACRLAEVSK--- 706
Db 706 -----LSLEHPWAGPQLRTSQPSHLFTQDPTMPHPAPNPLTLQEEARRLEBEKRAAS 760
Qy 707 ---POKORCCVASQQRDRNHSAGQAGAPFPANP-----SLAPEDHKEPKKLASV 753
Db 761 RAPSQRVQVEMRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQRKVGCG 813
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Qy 754 HALQASELVVYTFPCGEEIPYRRLMLKAQSLTLGHFEQOLSKGNRYRYFKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPFYRTLVRGRAVTLGQFKELLTKGSRYYRYFKVSDDFCGV 873
Qy 814 VFBEIWDDEVLPWMEGRILGKVERID 840
Db 874 VFBEVREDAVLPVFEEKIIGKVEKD 900
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## RESULT 13

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US-10-786-720-34
; Sequence 34, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 461
; TYPE: PR1
; ORGANISM: Homo sapiens
; US-10-786-720-34

Query Match      19.3%; Score 860; DB 16; Length 461;
Best Local Similarity 50.5%; Pred. No. 2.9e-52;
Matches 192; Conservative 50; Mismatches 82; Indels 56; Gaps 12;

Qy 12 DPSSSFEDAPRPVPGEGETPPCQPSVGKQSTKMPVS-----SN 54
Db 60 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT 109
Qy 55 ARNEDGLG-EPEGRASPSPLRTWKYSLHLLGDDQAGYLFRTFLEREKCVDTLDFWFA 113
Db 110 PRSDLDLGYEPEGASPTPYLKWAESLHLLDDQGISLFRFLKQEGCADLLDFWFA 169
Qy 114 CNFRQWMLKDT---KTLRVAKAIYKRYI-ENNSVWSKQLKPKATKYIRDIGIKQOIGSV 169
Db 170 CTGFRKLEPCDSNEEKRLKARAIYKYILDNNGIVSRQTKPATKSFKGCIMQLIDPA 229
Qy 170 MFDQAQTEIOAVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLGSLKVLGCLYPT 227
Db 230 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTGESPKVCSQSSSGTGKIGSYLPT 289
Qy 228 LNEEEETWC-----ADLKCLSPYTVVGLSSKTLRATASVRSTETAEANGFRSPKR 276
Db 290 LNEDEEWKCDQDMDDEDGRDAAPPGLR-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 347
Qy 277 SDPNVPHVGGYVFPATASANDSE---LSSDALTDDSMSTDSVDGVPPYRMGSKQL 333
Db 348 -EPVNPYVYVAGYALAPATASANDSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 401
Qy 334 QREMHRSVKANGVSLPHFP 353
Db 402 REMQESQVNGRVPPLPHIP 421
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## RESULT 14

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US-10-106-698-5828
; Sequence 5828, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA00591
; CURRENT APPLICATION NUMBER: US/10/106,698
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; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 5828
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (48)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-10-106-698-5828

Query Match      16.5%; Score 733; DB 14; Length 155;
Best Local Similarity 90.8%; Pred. No. 6.4e-44;
Matches 139; Conservative 3; Mismatches 11; Indels 0; Gaps 0;

QY 688 PNTLAQLEECRLAEVSKPKQRCVSAQOORNRHSAAGACGASFPANSLAPEDHKEP 747
Db 3 PTXWQLEECRLAEVSKPKQRCVSAQOORNRHSAATVQTGATXFNPSLPEDHKEP 62

QY 748 KKLASHVALQASLVVTFPCGGEIPYRRMLKAQSLTLGHFKEOLSKKGNRYRYEKKASD 807
Db 63 KKLASHVALQASLVVTFPCGGEIPYRRMLKAQSLTLGHFKEOLSKKGNRYRYEKKASD 122

QY 808 EFACGAVFEIWDDETVLPMEGRILGKVERID 840
Db 123 EFACGAVFEIWDDETVLPMEGRILGKVERID 155

RESULT 15
US-11-097-143-3015
; Sequence 3015, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637

; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3015
; LENGTH: 745
; TYPE: PRT
; ORGANISM: DROSOPHILA
; US-11-097-143-3015

Query Match      10.3%; Score 457.5; DB 20; Length 745;
Best Local Similarity 22.2%; Pred. No. 2.2e-23;
Matches 212; Conservative 125; Mismatches 277; Indels 341; Gaps 39;

QY 13 PSSSFRED-----APRPPVPGEGETPPCQPSGVKQVQSTKPMPPVSSNARNEDGLGEPEG 67
Db 5 PSGIRKHDNECGRRPPYPGEE-----SRVKMTGEGVADTSK 42

QY 68 RASPDSPLTRWTKSLHSLGLDQDQGYLFRFTFLEREKCV--DTLDFWFAAGNFRQMLKDT 125
Db 43 NSPSPS--YLNWARTLNHLEDRDGVLFKYYVEEAPAYNDHLNFYFACGLKQQT-DPE 99

QY 126 KTLRVAKAIYKRYIENNSVSKQLKPATYTIIRDGIKKO---QIGSMFDDQATEIQAVM 182
Db 100 KIKQIIGAIYFELRKSQLSISDDLRAQIK-----AIKTNPEIPLSPHIFDPMQHVETI 154

QY 183 ENAYQVLTSDIYLEYVR-----SG--GENTAYMNGGLGSLKVLGVLPTLN 229
Db 155 RDNITYPTFLCSEMYIILYOOMSAAQOBERCTSSGATSGSAGSSGGSSLAGACALPPTTA 214

QY 230 EEEE-----WTCADLKCKLSPTVVVGLSSKTLRATASVRSTE 265
Db 215 SKQQLPOLVPPGAFINLPVSSVSGPPAGTCSAGSVGPGSTSSAGSGISATDILPRSS 274

QY 266 T-----AENG-----FRSKRSD 278
Db 275 TLPTLHEDSVLSLDDPEKVMQOEGGSLGSGSVGAGARAPDYPILRLDILLIATQKRL 334

QY 279 PVNPHVGGYYPAPAT-----SANDSE---LSSDALTD--DSMSMTDSSVDGPPPYR 326
Db 335 EIRP--FGAHGYVYNPSTTNTSVNPSRVDSERASVSSGGRTSDTWTSSISCSMDGRPIYIQ 393

QY 327 MGSKQLOREHRSVKANGQV--SLPHFRTRHL--PKEMTPFVEPAPAAFAELISLEKLE 384
Db 394 RRHSSTESKAIQSAMANKETNTFQVIRTLRHSNEHRLKEELVSLIPKLE-----E 449

QY 385 LESRHSLEERLQO-----IREDEKEGSEQALSSRDGAPVQHPHALLPESGVEEDPQTI 438
Db 450 VKRKRDLEERARERNPGAALLTNERSSASDRAPAE---AIREKFAL-----DEDNDQDI 500

QY 439 LDDHLSRVILKTPCCQSPGVGRYSPRSRSPDHHHHHHHQQCHTLTLLTGKLPVAAACPLL 498
Db 501 LQOHVSRVWKD---QTP-----HRSP-----GTMSF----- 523

QY 499 GGSFLTKQTTKHVVHHYIHHAVPKTKBEIEAEATQVRCLCPGCTDYCYCKCKSHPK 558
Db 524 -----CP----- 525

QY 559 APEPLFGEQFCGSRGTLPKRNAKGTPEGLASARGDGMSSAAGGQPLPGEEDRSDVW 618
Db 526 ---PIP-----SRRT-----ATHDSGMVS--DGAMSLSG----- 550

QY 619 QWMLESEROSKSP-HSAQSIKSYPLESARAAPG-----ERVSRRHLLGASHRSVA 671
Db 551 ----HSMKHSKGNPDHSHSCSRKLTNKPWSNMTDSGISMSFADVTYIK--DASRSGS-- 602

QY 672 RAHPFTQDPAMPPLTPNPTLAQLEECRLAEVSKPKQRCV-----ASQORDNRHSA 725
Db 603 -----STASKLEAKRLED--EPRSRRYAQPMPQHLSQQPLASFSS 643

QY 726 AGQAGASPFANPSLAPEDHKPKKLASVHALQASLVVTFPCGGEIPYRRMLKAQSLTL 785
Db 644 SSSGSGSISL-----PHQPPPLPA-----KPPETIVVFSFCEEPVYRIKIPGTQPTL 690
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Qy 786 GHEKEQLSKGNVRYYYFKKASDFACGAVFEEIWDDETIVLPMYEGRIILGKVERID 840  
Db 691 RQFKDYLPFRGHFAFFFKTHCEDPSPVIOEEIWNDSIILPFGDKAMGLVKPSD 745

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